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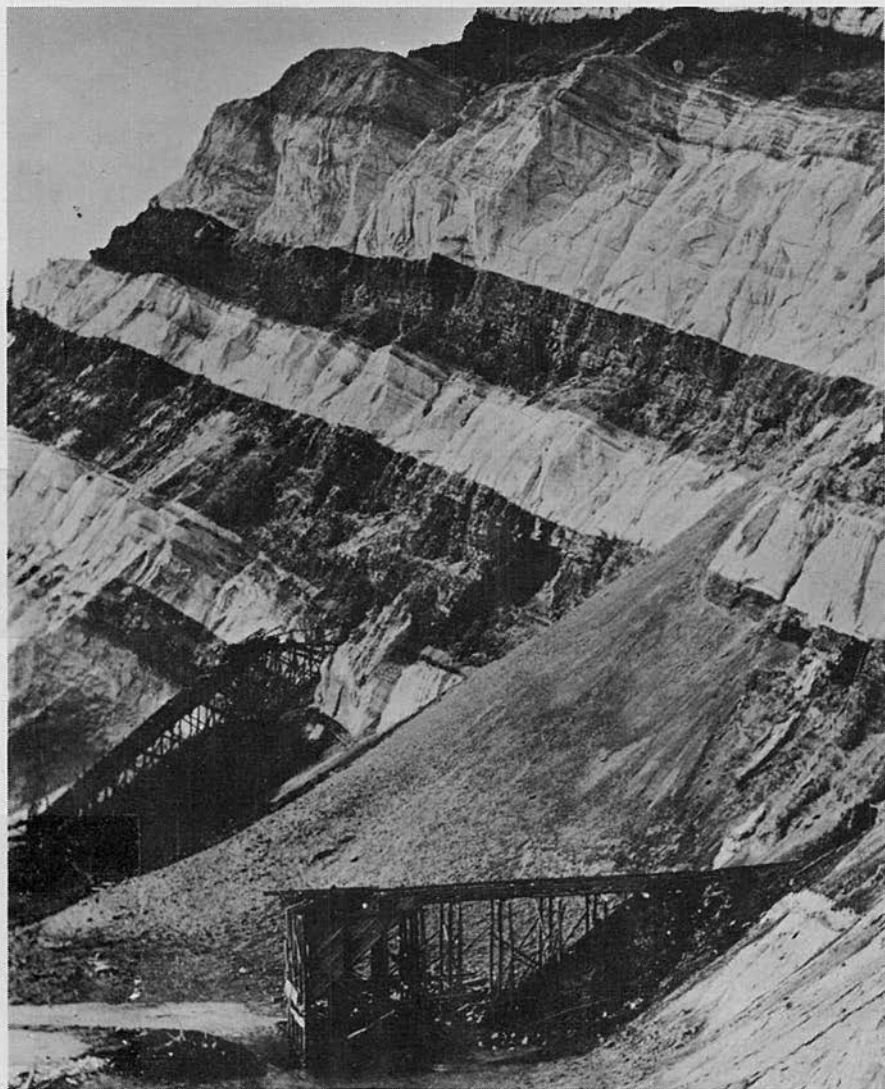


# ALASKA COAL - A BIBLIOGRAPHY

by

Julia H. Triplehorn

January 1, 1982



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**ARLIS**

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## FOREWARD

Coal has been mined and used in Alaska for more than a century, and still is the principal source of energy for power generation for the interior Alaska region. Recent events that have caused increases in the cost of energy have spurred new world-wide interest in greater use of lower cost coal in place of oil. In the past few years, there has been increased interest in Alaska coal by private investors, evidenced by stepped-up exploration activity. Interest from the Pacific Rim nations is shown by the signing of contracts between Korean buyers and the Usibelli Coal Mine; and the entrance of Korean capital into exploring the Bering River Field. Japan is continuing pilot plant testing of Beluga coal.

All of this indicates a rapidly growing interest in Alaska's coal and it seemed appropriate to have a comprehensive bibliography of Alaskan coals available to help the emerging coal mining industry in Alaska. Since a literature search is the first task of every company that wants to enter the Alaskan coal mining industry, the time seemed appropriate to compile a comprehensive bibliography of Alaskan coal to eliminate duplication of effort and guarantee the industry the most comprehensive source of information.

Julia Triplehorn is uniquely qualified for this task. She is a reference librarian by profession, with background in both geology and library science, and long experience in bibliographic searches on numerous other subjects. She has done an admirable job in searching all available sources, and has added an inclusive index that took time, dedication, and patience--a job well done.

The School of Mineral Industry, Mineral Industry Research Laboratory, is pleased to make this bibliography available to industry and all those involved in research working toward the development of Alaskan resources.

P. Dharma Rao  
Professor of Coal Technology  
University of Alaska, Fairbanks

## INTRODUCTION

The recent interest in Alaskan coal resources has created a need for comprehensive information on coal locations, mines, and companies with their present and past development. This publication is designed to meet such a need by providing a bibliography with a subject index. All aspects of Alaskan coal resources up to May 1981 are included, but there is only limited coverage of political, legal, and legislative matters.

There are two major sections: the Bibliography and the Index.

### Bibliography

This is arranged alphabetically by author or originating agency with a separate number assigned to each entry. Single-author entries appear before those coauthored by the same author. Agency entries are made under the name of the agency at the time of publication; users should be aware that many name changes occurred at the time of statehood.

The majority of the documents were obtained at the Rasmuson Library - University of Alaska, Fairbanks. Sources of documents obtained from other libraries or archives are indicated within parentheses following such entries. The Wickersham entries are indicated separately because they can be obtained from a special file in the Rasmuson Library using the Wickersham number. Entries which were not located anywhere are indicated with an asterisk (\*).

All entries have enough detailed bibliographic information to be obtained from Rasmuson Library or on Interlibrary Loan from the specific library or archives cited in parentheses.

### INDEX

Most of the documents for the bibliographic entries were obtained and scanned by one of the indexers. They selected terms from a

thesaurus which was based on the index from the Bibliography of Coal - Geological Survey of Wyoming. Documents which could not be obtained (marked by an \*) were indexed from the title words.

The index is arranged alphabetically, interfiling coal locations, mines, companies, and other subjects. An example of an index is as follows:

Mining: 963(40)

This refers to bibliographic item 963 and indicates that it was published in the decade of the 40's. The 19th century articles are written out (e.g., 1880 or 1890) to avoid confusion.

Only a few cross references are given. To interrelate the many variations of individual mines and companies would require another research project which time does not permit. It is assumed that the user will not only consult specific locations, mine names, and company titles, but will also refer to broader categories such as coal fields.

To aid the user, an outline of coal fields and an index map are included as Appendix I and Appendix II. These indicate the names of regions as used in this bibliography. Note the following abbreviations for regions: AR - Arctic, I - Interior, NW - Northwest, SC - Southcentral, SW - Southwest.

Maps that stand alone and are not part of larger publications are identified as maps under specific locations. For additional maps, check entries under Stratigraphy and Geology. These may include maps as part of larger works; but such maps are not indexed separately.

With a project of this nature, there are certain to be errors and omissions. Please call these to the attention of the author, so they can be corrected or added to future revisions.

#### Sources of Information

The following libraries and archives were utilized in the preparation of this bibliography: Rasmuson Library - University of Alaska,

Fairbanks; Alaska State Library; Alaska Historical Library; U.S. Bureau of Mines - Juneau; Federal Record Center - Seattle; National Archives - Washington; and U.S. Geological Survey - Anchorage.

A number of bibliographies (published and unpublished) were utilized. Most bibliographies accompanying the individual entries were also scanned for additional references. Some of the major sources were Bibliography and Index of North American Geology, Bibliography and Index of Geology, Lyle - Coal Bibliography for Alaska, Barnes - Coal Resources of Alaska, U.S. Geological Survey indexes (including the numerous Cobb Sources), U.S. Bureau of Mines indexes, Alaska Division of Geological and Geophysical Survey publications, Arctic Environmental and Data Center bibliographies, and computer literature searches of the National Technical Information Service, Georef, Geoarchiv, Engineering Index, and Department of Energy.

### Acknowledgments

Appreciation and thanks are extended to the following:

Geological Survey of Wyoming - for their bibliography and index that were the model for this one.

Jean Mattson, Librarian, U.S. Bureau of Mines - Juneau, - for the special assistance in locating the coal references.

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Dr. Claus Naske - for his personal file of coal material from National Archives.

Carl and Joel Triplehorn - for their help in assembling the index and editing.

Don Triplehorn - for his encouragement and assistance in the entire project.

Laura Lee Potrikus - for her marvelous typing skills.

Staff members at the following libraries for their help in obtaining references: Alaska State Library, Alaska Historical Library, Rasmuson Library - University of Alaska, Fairbanks.



Appendix I

COAL DISTRICTS, FIELDS AND OCCURRENCES LISTED BY ALASKA REGION

ARCTIC REGION (AR)

Northern Alaska Coal Fields and Districts

Lisburne - Pt. Hope Field

Corwin Bluff - Utukok Rivers Region

    Cape Beaufort District

        Liz-A-Syncline

        Deadfall Syncline

    Corwin Bluff District

    Offshore Chukchi Sea between Cape Lisburne and Franklin Pt.

    Kukpowruk River District

    Kokolik River District

    Utukok River District

Central Arctic Slope Region

    Kuk-Kugrua Rivers District

        Kuk River

        Kugrua River

    Meade River District

    Ikpikpuk River District

    Colville River District

East of Itkillik River

NORTHWEST REGION (NW)

Occurrences:

Unalakleet

    Beach

    Unalakleet River

Seward Peninsula

    Sinak River

    Koyuk River

    Kugruk River (15 mi. west of Candle)

    Chicago Creek

Kobuk River

    Trinity Creek

    Kallarichak River

    Hunt River

    Lower Ambler River

    Kogoluktuk River

    Lockwood Hills

INTERIOR REGION (I)

## Nenana Field:

Healy Creek  
 Rex Creek  
 Tatlanika Creek  
 Wood River  
 California Creek  
 Lignite Creek  
 Savage River

## Jarvis Creek Field

## Eagle-Circle District

## Occurrences:

Mission Creek Basin  
 Seventymile River  
 Washington Creek  
 Bonanza Creek  
 Nation River  
 Cal Creek  
 Chicken

## Yukon River-Rampart District

## Occurrences:

Rampart  
 Hess Creek (Drew Mine)  
 Dall River  
 Coal Creek

## Scattered Occurrences:

Galena  
 Nulato (Pickart, Bush, and Blatchford mines)  
 Kaltag (Williams and Blackburn mines)  
 Anvik River (100 miles above its mouth)  
 Poorman  
 Tramway Bar

SOUTHCENTRAL REGION (SC)

## Cook Inlet-Susitna Fields

## Yentna and Beluga Fields

Canyon Creek  
 Drill Creek  
 Capps Glacier  
 Chuitna River  
 Beluga River

## Kenai Field

Homer District

SOUTHCENTRAL REGION (CONTINUED)

Offshore Cook Inlet  
Matanuska Field  
    Little Susitna District  
    Wishbone Hill District  
    Chickaloon District  
    Anthracite Ridge District  
Broad Pass Field  
Bering River Field  
Occurrences:  
    Robinson Mountain

SOUTHWEST REGION (SW)

Unga Island Field  
Herendeen Bay Field  
Chignik Field  
Occurrences:  
    Little Tonsona  
    Etolin Stratis  
Lower Kuskokwim River Basin  
CheeneetnuK River  
Lower Yukon River Basin  
    Blackburn  
    Anvik  
    Flat

SOUTHEAST REGION (SE)

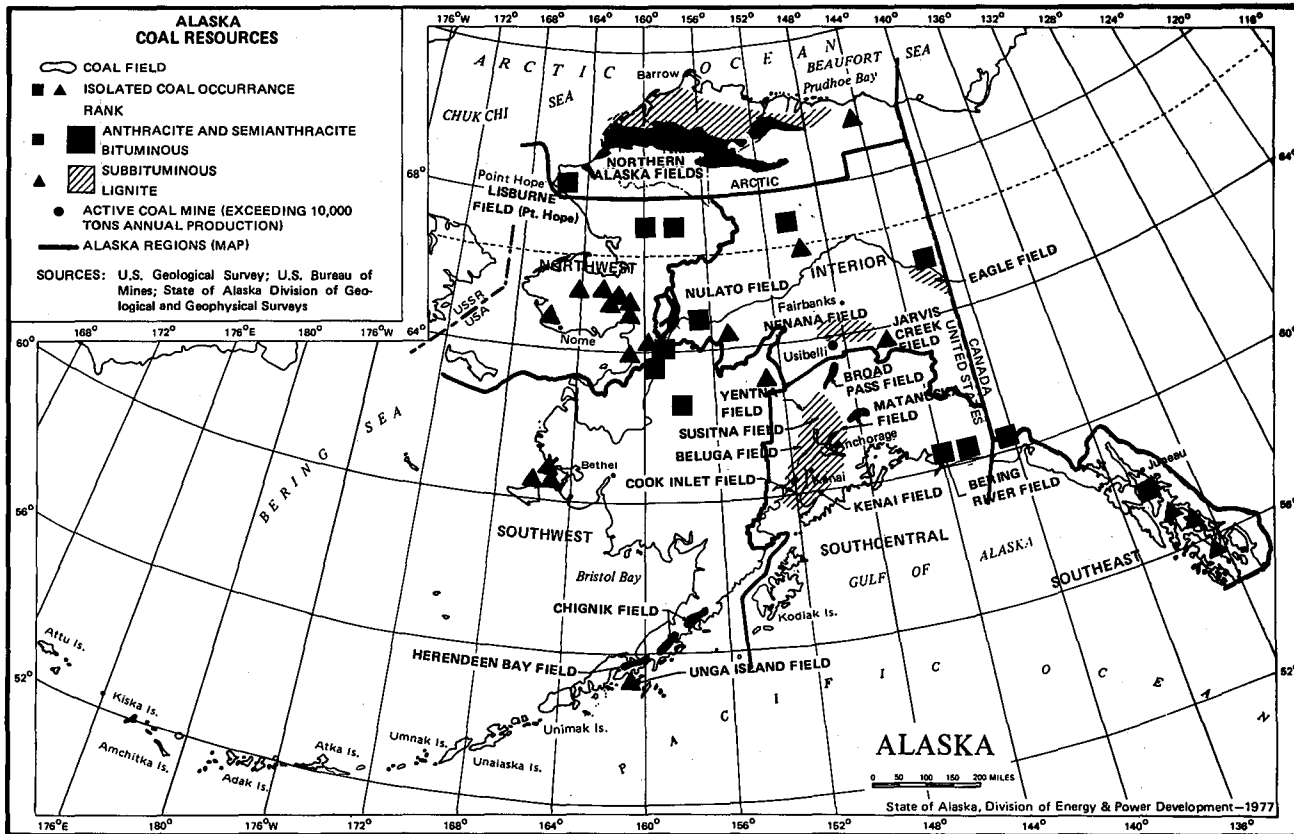
Occurrences:

Between Icy and Yakutat Bays, mainland  
Kootznahoo Inlet, Admiralty Island  
Murder Cove, Admiralty Island  
Kasaan Bay, Prince of Wales Island  
Hamilton Bay, Kupreanof Island  
Port Camden, Kuiu Island

The preceding three pages were reprinted from the following:

Alaska Division of Energy and Power Development, 1979.

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Appendix II Map of Major Coal Resource Areas in Alaska

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 General: 12(70), 42(20), 89(50), 134(40), 179(10), 186(10),  
 232(40), 295(70), 311(20), 312(70), 333(10), 350(10),  
 352(10), 353(10), 367(60), 397(30), 420(10), 422(10),  
 458(70), 531(10), 535(70), 706(IP), 708(10), 713(60),  
 774(40), 878(20), 882(30), 897(70), 949(20), 1024(30),  
 1025(30), 1026(30), 1036(40), 1132(30), 1133(30),  
 1134(30), 1135(30), 1136(30), 1137(30), 1138(30),  
 1142(30), 1232(10)  
 Geology: 392(40)  
 History: 858(80)  
 I: 8(70), 147(40-50), 189(10), 225(20), 232(40), 294(70)  
 322(00), 337(10), 393(70), 507(80), 580(30), 641(50),  
 642(50), 652(00), 707(10), 774(40), 786(10), 959(60), 1091(10)

## AMERICAN CREEK (NW)

Analysis: 338(00), 446(00)

## AMERICAN EXPLORATION and MINING COMPANY

General: 518(70), 890(70)

## ANAKTUVAK (AR)

Analysis: 270(60), 339(00), 517(60), 775(00), 782(00), 1005(50),  
1044(30), 1226(10), 1244(10)

Development Potential: 634(00)

General: 359(00)

Geology: 338(00), 517(60), 775(00), 999(00), 1044(30)

Power Generation - Economics: 466(IP)

Rank: 82(00)

Reserves: 634(00), 782(00)

Structures: 517(60), 999(00)

## ANATUSUK (AR)

Transportation: 1162(50)

## ANCHOR CAPE

General: 491(90)

## ANCHOR POINT (SC)

Analysis: 1085(00)

General: 321(1890), 1105(1880)

Geology: 1085(00), 1086(00)

Stratigraphy: 1086(00)

Structure: 794(10), 1086(00)

## ANCHORAGE COAL COMPANY

General: 232(40)

Premier Mine Closure: 1076(40)

## ANCHORAGE COAL DOCK

Photographs: 50(10)

## ANCHORAGE MILITARY POWER PLANTS

General: 77(60), 78(60), 79(60), 80(60), 85(50), 86(60), 87(60)

## ANDERSON (I)

Geology: 774(40)

## ANDREAFSKI (I)

Analysis: 588(10)

General: 632(10)

## ALASKA RAILROAD contd.

Mining: 1176(40)

Mining Development: 367(60)

Moose Creek: 141(20-30)

Naval Alaskan Coal Commission: 1096(10), (see also this subject heading)

Operations: 70(40), 71(40), 73(50), 82(50), 122(20), 201(10),  
225(10), 1028(30)

Overview: 659(70)

Rates: 42(70), 56(20), 74(20), 361(10)

Routes: 355(10)

Steam Test: 1278(30)

SC: 178(10), 252(60), 294(70), 302(40), 415(20), 476(10), 477(10),  
507(80), 704(40), 771(10), 776(10), 780(00), 791(00), 796(10),  
800(50), 948(20), 959(60), 1091(10), 1096(10)Spurs: 52(40), 69(40), 96(60), 113(30-40), 114(50), 119(20-30),  
124(20-40), 132(20), 140(20-30), 142(20), 143(20), 511(70),  
905(50), 949(20), 1026(30), 1231(50), 1243(-), 1258(80)

## ALASKA RANGE I

Coal Locations: 405(30)

General: 394(40), 861(60)

Geology: 899(00), 939(30), 1039(20)

Structure: 899(00)

## ALASKA ROAD COMMISSION

General: 878(20)

## ALASKA SMOKELESS ANTHRACITE COAL COMPANY

Coal Survey Plat: 1168(00)

General: 422(10), 530(10)

Report: 1060(10)

## ALASKA SMOKELESS COAL COMPANY

Coal Survey Plat: 1168(00)

General: 422(10), 530(10), 1046(10)

## ALASKA SYNDICATE

General: 1222(10), 1224(10)

## ALASKAN COMMERCIAL COMPANY

General: 321(1899), 446(00), 447(00), 529(1890), 599(00), 694(00),  
821(30)

## ALASKAN ENGINEERING COMMISSION

Correspondence: 1113(10)

## ALASKA ENGINEERING COMMISSION contd.

Drilling: 705(50)

General: 122(20+), 145(20-60), 182(20), 185(10), 332(10), 335(20),  
357(20), 415(20), 416(20), 776(10), 777(20), 957(20),  
1071(20), 1081(20), 1093(10), 1170(40)

History: 858(80)

I: 817(10)

Mining Development: 771(10)

SC: 948(20), 1071(20), 1142(30)

## ALDER CREEK (SC)

General: 1141(30)

## ALEUTIAN ISLANDS (SW)

General: 11(70), 490(1890), 491(1891)

Geology: 338(00), 403(30)

Reserves: 11(70)

## ALEXANDER ARCHIPELAGO (SE)

General: 490(1890), 527(1890)

Reserves: 410(70)

## ALEXANDER CREEK (SC)

General: 1342(00)

Reserves: 509(70)

## AMALIK HARBOR (SW)

Analysis: 338(00), 1085(00)

General: 1250(00)

Geology: 338(00), 819(1890), 1085(00)

## AMBER IN COAL

General: 491(1890)

## AMBLER RIVER (NW)

Analysis: 493(80)

General: 316(70), 585(40), 813(70), 1038(10)

Geology: 493(80)

Reserves: 317(70), 492(80), 1249(70)

## AMCHITKA (SW)

General: 490(1890)

## AMERICAN CREEK (I)

Analysis: 827(30), 1201(60)

General: 288(1890)

Geology: 1054(1890)

Stratigraphy: 826(40)

Structure: 826(40)

## ANIACHAK DISTRICT (SW)

Analysis: 730(20)  
 General: 1085(00)  
 Geology: 730(20)

## ANTHRACITE RIDGE COAL FIELD (SC)

Analysis: 2(60), 74(20), 281(60), 470(40), 571(10), 572(10),  
 744(10), 869(00), 951(30), 1007(30), 1009(30), 1244(10),  
 1314(30)  
 Coking: 1307(60)  
 Correspondence: 61(20)  
 Exploration: 876(20), 993(-), 1028(30)  
 General: 876(20), 883(30), 949(20), 985(IP), 1021(20)  
 Geology: 394(40), 395(20), 397(20), 471(40), 585(40), 610(00),  
 656(20), 1314(30)  
 Maps: 656(20)  
 Marketing: 1027(30)  
 Photographs: 656(20)  
 Production: 1027(30)  
 Rank: 269(60)  
 Reserves: 269(60), 724(10), 889(IP), 1028(30), 1096(10), 1307(60)  
 Stratigraphy: 656(20), 796(10), 869(00), 951(30), 993(-), 1314(30)  
 Structure: 269(60), 610(00), 656(20), 951(30), 993(-), 1307(60)

## ANVIK RIVER

Analysis: 446(00), 582(80)  
 General: 447(00), 584(70), 859(00), 984(70)  
 Geology: 338(00), 582(80), 588(10), 632(10)

## ARCTIC ALASKA (AR)

See also other locations in the area.

Analysis: 294(70), 327(80), 329(10), 573(20), 659(70), 710(70),  
 925(80), 926(80), 927(RIP), 1307(60)  
 Character: 925(80), 926(IP)  
 Economics: 535(70)  
 General: 11(70), 295(70), 394(40), 457(70), 746(60), 985(IP),  
 1318(70)  
 Geology: 294(70), 327(80), 329(10), 386(70), 458(70), 459(70),  
 710(70), 731(IP), 925(80)  
 History: 925(80)  
 Locations: 917(80)  
 Marketing Potential: 731(IP), 833(70)  
 Mining: 327(80), 466(IP), 469(70), 731(IP), 833(70), 1199(70)  
 Overview: 808(70), 1239(70)  
 Paleobotany: 512(10)  
 Palynology: 512(10), 807(IP)

## ARCTIC ALASKA contd.

Permits: 228(10-20)  
Petrology: 512(10)  
Power General Potential: 466(IP)  
Production: 228(10-20), 713(60)  
Rank: 782(00)  
Reserves: 11(70), 535(70), 782(00), 853(70), 987(IP), 1188(70),  
1249(70)  
Structure: 327(80), 659(70)  
Washability: 925(80), 926(IP), 927(RIP)

## ARCTIC COAL COMPANY

Analysis: 1170(40)  
Evaluation: 1202(50)  
General: 39(60), 156(50), 157(50), 158(50), 167(50)  
Map: 233(50-60)  
Mining Operations: 233(50-60), 668(50), 669(50), 1323(60)

## ARCTIC DEVELOPMENT COMPANY

General: 455(00), 999(00)

## ARCTIC OCEAN

Geology: 345(00)

## ATHANASOPOLOS FREE USE PERMIT

General: 186(10)

## ATKA ISLAND (SW)

General: 490(1890)  
History: 858(80)

## ATKASOOK (AR)

Development: 605(-)  
Economics: 605(-)  
Geology: 605(-)  
Mining: 605(-)  
Structure: 605(-)

## ATOKOK RIVER

Reserve: 1333(70)

## ATTU (SW)

General: 490(1890)

## AURORA at 59°

History: 638(70)  
Mining: 638(70)

## AURORA GROUP

Development Potential: 578(10)

## AVINGAK CREEK (AR)

Geology: 386(IP)

## BAIRD MOUNTAINS

Reserves: 317(70)

Transportation: 317(70)

## BALLINGER - PINCHOT CONTROVERSY

General: 177(10), 367(60), 687(10), 688(10), 709(10), 714(10), 985(IP),  
1050(10), 1082(10), 1230(10), 1232(10), 1238(10)

## BARANOF ISLAND (SE)

Geology: 338(00)

## BARRETT CREEK (SC)

Analysis: 470(40), 572(10), 1170(40)

General: 280(50)

Geology: 471(40)

## BARRETT PROSPECT

Stratigraphy: 284(50)

## BARROW (AR)

Alternative Energy Source: 315(70)

General: 1324(60)

Mining: 666(50), 667(50), 668(50), 980(50), 985(IP), 1078(40),  
1175(40), 1323(60)

Mining Costs: 315(70), 903(70)

Power Generation: 651(70), 903(70)

Production: 985(IP)

Reserves: 11(70)

## BARROW COAL MINE PROJECT

Appraisal Valuation: 1156(40)

Coal Storage: 1155(40)

Coal Testing: 990(40)

Correspondence: 1152(40), 1153(40), 1154(40), 1155(40), 1156(40),  
1157(40), 1158(40)

Development Plans: 369(40), 988(40), 1153(40), 1154(40)

Economics: 594(40)

Exploration: 594(40), 1152(40), 1153(40), 1154(40), 1155(40), 1158(40)

Financial Report: 1152(40), 1153(40), 1155(40), 1157(40)



## BARROW COAL MINE PROJECT contd.

General: 1152(40), 1158(40)  
 History: 594(40)  
 Inventory: 1156(40), 1158(40)  
 Mine Rental Agreement: 1156(40)  
 Mining: 1154(40)  
 Photographs: 1152(40)  
 Production: 1155(40), 1156(40)

BASIN CREEK (SW)  
 General: 828(10)

BASS-HUNT-WILSON COAL LEASES  
 See CHUITNA RIVER COAL FIELD

BARTHOLF PROSPECT  
 Stratigraphy: 284(50)

BAXTER-BEDELL COAL COMPANY (SC)  
 Analysis: 131(20), 132(20)  
 Map: 131(20)  
 Mining: 131(20), 260(40), 1068(20), 1237(20)  
 Production: 260(40)  
 Steaming Tests: 496(20)

BAXTER MINE (SC)  
 Analysis: 2(60), 232(40), 415(20), 470(40), 494(20), 1170(40),  
 1303(60)  
 Closure: 60(20), 1081(20)  
 Coal Fires: 218(-), 232(40), 1209(50-70)  
 Development Potential: 582(80)  
 General: 57(20), 335(20), 395(20), 956(10), 1313(30)  
 Geology: 232(40), 415(20), 471(40), 585(40), 1255(-), 1303(60)  
 Leases: 514(20)  
 Mine Map: 218(-), 1184(40)  
 Mining: 356(20), 415(20), 471(40), 771(10), 985(IP)  
 Production: 62(20), 955(10), 985(IP), 1067(20), 1314(30)  
 Reserves: 1303(60)  
 Structure: 415(20)

BAXTER SPUR (SC)  
 Correspondence: 57(20)  
 General: 140(20-30)

BEAR CANYON (SC)  
 General: 279(50)

BEAR CREEK (SC)  
 Analysis: 1244(10)  
 General: 280(50)

BEAVER  
 General: 316(70)

BEAVER CREEK (I)  
 Geology: 391(10), 398(10)

BELUGA COAL COMPANY (SC)  
 General: 518(70), 720(70), 721(IP)  
 Mining: 887(70), 925(80)  
 Strip Mining: 733(70)

BELUGA COAL FIELD (SC)  
 Analysis  
 1890 - 1909: 775(00)  
 1910 - 1949: None  
 1950 - 1969: 269(60), 271(60), 665(50), 769(50), 959(60),  
 1305(60), 1306(60)  
 1970: 12(70), 294(70), 509(70), 524(70), 587(70), 644(70),  
 659(70), 810(70), 812(70), 888(70), 890(70), 962(70),  
 1058(70), 1059(70)  
 1980: 507(80), 930(80), 1235(80)  
 IP: 926(IP)  
 Character: 887(70), 926(IP)  
 Development Potential: 194(70), 291(70), 292(80), 293(70),  
 308(IP), 455(70), 508(70), 509(70), 517(IP), 521(70),  
 545(70), 582(80), 665(50), 720(70), 721(70), 733(70),  
 863(70), 887(70), 888(70), 917(80), 950(70), 1011(80),  
 1058(70), 1059(70), 1123(70), 1206(70), 1320(70)  
 Drilling: 421(80), 812(70), 1207(60), 1208(60), 1305(60), 1306(60)  
 Drying: 917(80), 929(RIP)  
 Economics: 291(70), 292(80), 308(IP), 508(70), 887(70), 902(IP),  
 960(IP)  
 Environmental Impact: 194(70), 733(70), 960(IP), 996(70), 1235(80),  
 1320(70)  
 Exploration: 665(50), 888(70)  
 Gasification Potential: 811(70), 812(70)  
 General: 1(00), 33(60), 34(60), 295(70), 394(40), 405(30), 469(70),  
 641(50), 804(70), 808(70), 877(20), 984(70), 985(IP),  
 1063(50), 1318(70), 1225(10), 1324(60)  
 Geologic Age Determination: 856(70)

## BELUGA COAL FIELD contd.

Geology: 13(70), 194(70), 294(70), 327(80), 484(10), 509(70),  
 524(70), 529(1890), 587(70), 644(70), 769(50), 775(00),  
 910(80), 930(80), 996(70), 997(IP), 998(70), 1208(60),  
 1305(60)  
 History: 665(50)  
 Hydrology: 421(80), 860(IP), 1002(80)  
 Land Status: 504(70), 509(70)  
 Marketing Potential: 252(60), 292(80), 308(IP), 507(80), 509(70),  
 521(70), 582(80), 721(70), 806(80), 851(IP), 863(70),  
 902(IP), 960(IP), 975(00), 1104(IP), 1058(70), 1059(70)  
 Methane in Coal: 292(80)  
 Methanol Production Potential: 960(IP)  
 Military Interest: 665(70), 668(50), 975(70)  
 Mining: 463(70), 509(70), 518(70), 644(70), 713(60), 733(70),  
 887(70), 1011(80), 1063(50)  
 Mining Costs: 509(70), 1235(80)  
 Overview: 808(70), 984(70)  
 Palynology: 807(IP)  
 Permits: 641(50)  
 Petrography: 962(70)  
 Petrology: 930(80)  
 Power Generation Potential: 815(70), 863(60), 887(70), 960(IP),  
 1011(80), 1104(IP)  
 Production: 507(80), 509(70), 524(70), 525(70), 649(60), 713(60),  
 733(70), 959(60), 1011(80), 1235(80)  
 Rank: 194(70), 269(60), 810(70), 812(70)  
 Reclamation: 463(70), 733(70)  
 Reserve: 194(70), 291(70), 293(70), 308(IP), 410(70), 455(70),  
 508(70), 509(70), 517(IP), 545(70), 649(60), 721(70),  
 810(70), 812(70), 987(IP), 1059(70), 1235(80), 1305(60),  
 1306(60), 1320(70)  
 Slurry Potential: 194(70)  
 Solvent Refined Potential: 1058(70), 1059(70)  
 Stratigraphy: 271(60), 421(80), 812(70), 910(80), 1305(60),  
 Structure: 271(60), 327(80), 524(70), 659(70), 910(80), 959(60),  
 996(70), 998(70)  
 Synthetic Fuels Conversion Potential: 509(70), 960(IP)  
 Transportation: 980(70), 1011(80), 1058(70), 1059(70), 1104(IP),  
 1235(80), 1305(60)  
 Transportation - Marine: 291(70), 292(80), 509(70), 720(70),  
 721(70), 806(80)  
 Washability: 926(IP)

## BELUGA LAKE (SC)

Analysis: 904(80)  
 General: 271(60)  
 Geology: 484(10), 769(50)

## BELUGA LAKE contd.

Rank: 904(60)  
 Reserves: 904(60)  
 Structure: 769(50)  
 Washability: 904(60)

## BENNETT COAL LEASING TRACT (SC)

Development: 948(20)  
 Mining: 948(20)

## BERING LAKE (SC)

Analysis: 470(40), 744(10)  
 General: 9(50), 280(50), 302(40), 349(00), 984(70)  
 Geology: 471(40), 475(10), 479(10), 714(10)  
 Mining: 985(IP)  
 Production: 985(IP)

## BERING RIVER ALASKA COAL COMPANY (SC)

Coal Survey Plat: 1168(00)  
 General: 422(10), 530(10)  
 Mining: 658(20), 1046(10)

## BERING RIVER COAL COMPANY (SC)

Analysis: 563(20), 571(10)  
 Blacksmithing Coal: 563(20)  
 Coking Test: 563(20)  
 General: 832(20)  
 Geology: 563(20)  
 History: 563(20)  
 Leases: 514(20), 547(20)  
 Maps (ext.): 563(20)  
 Marketing Potential: 563(20)  
 Mining: 181(10), 206(50), 309(20), 334(20), 514(20), 658(20),  
 951(20)  
 Mining Methods: 563(20)  
 Production: 563(20)  
 Stratigraphy: 563(20)  
 Transportation: 563(20)  
 Washery: 563(20)

## BERING RIVER COAL FIELD (SC)

Analysis  
 1890 - 1909: 339(00), 778(00), 780(00), 783(00), 788(00)  
 1910 - 1929: 191(10), 125(00), 204(20), 329(10), 354(10),  
 441(10), 481(10), 483(10), 553(20), 572(10),  
 714(20), 952(10), 1128(30), 1169(20), 1244(10),  
 1327(10)

## BERING RIVER COAL FIELD - Analysis contd.

1930 - 1949: 470(40), 585(40), 1170(40)  
 1950 - 1969: 269(60), 271(60), 588(60), 920(60), 923(60)  
 1970: 12(70), 294(70), 459(70), 813(70)  
 1980: 327(80), 1235(80)

Character: 339(00), 553(20), 918(70), 1058(70)  
 Claims: 331(10), 374(10), 375(10), 687(10), 714(10), 1088(10),  
 1241(10)

Coal Monopoly: 422(10)

Coking: 333(10), 553(20), 561(-), 783(00), 837(60), 909(20),  
 986(70), 1307(60), 1322(50)

Development: 341(20), 514(20), 546(20), 549(20), 655(10), 662(00),  
 957(20), 1034(30), 1089(10), 1170(40)

Development Potential: 293(70), 454(70), 578(10), 634(00), 719(10),  
 831(20), 952(10), 979(70), 1058(70)

Distribution: 671(70)

Economic Potential: 535(70), 979(70)

Exploration: 168(50), 670(10), 788(00), 876(20), 957(20),  
 1090(10), 1322(50)

General: 4(20), 163(50), 165(80), 190(10), 201(10), 205(50),  
 207(10), 262(10), 277(60), 295(70), 302(40), 310(20),  
 312(20), 335(20), 344(20), 348(00), 349(00), 359(00),  
 367(60), 420(10), 469(70), 476(10), 522(-), 575(10),  
 587(70), 600(00), 663(00), 765(10), 771(10), 776(10),  
 777(20), 804(70), 832(20), 845(20), 858(80), 875(10),  
 881(30), 918(70), 955(10), 956(10), 985(10), 1022(20),  
 1024(30), 1025(30), 1029(30), 1030(30), 1071(20),  
 1090(10), 1113(10), 1318(70)

Geology: 269(60), 280(50), 294(70), 327(80), 337(10), 345(00),  
 354(10), 358(10), 458(70), 459(70), 471(40), 473(-),  
 475(10), 478(10), 479(10), 481(10), 483(10), 512(10),  
 553(20), 561(-), 576(10), 585(40), 702(70), 704(40),  
 714(10), 778(00), 986(70), 1018(30), 1148(10), 1150(50),  
 1170(40), 1203(70), 1206(10), 1326(10)

History: 457(70), 553(20), 711(10), 858(80)

Leases: 228(10-20), 514(20), 561(-), 662(00), 1241(10)

Maps: 555(10), 557(-), 629(10-50)

Marketing: 169(20), 576(10), 923(60), 1028(30)

Marketing Potential: 19(50), 172(50), 173(50), 293(70), 546(20),  
 669(50), 923(60), 1323(60)

Mining: 260(40), 327(80), 330(10), 332(10), 553(20), 658(20),  
 714(10), 739(10), 746(60), 788(00), 801(60), 1026(30),  
 1027(30), 1028(30), 1046(10), 1064(50)

Mining Costs: 457(70), 1235(80)

Opening of Field: 333(10), 1047(10)

Overview: 202(40-50), 779(10), 808(70), 1087(10)

## BERING RIVER COAL FIELD contd.

Permits: 228(10-20), 472(20)  
 Petrography: 1265(60)  
 Preparation: 588(60), 1265(60)  
 Production: 228(10-20), 458(70), 655(10), 687(10), 713(60),  
 746(60), 770(10), 1028(30), 1067(20), 1068(20),  
 1093(10), 1235(80)  
 Rank: 269(60), 341(20), 441(10), 549(20), 813(70), 1128(10),  
 1169(20), 1226(10), 1301(70), 1307(60)  
 Reserves: 11(70), 280(50), 293(70), 345(00), 410(70), 441(10),  
 535(70), 634(00), 655(10), 670(10), 671(70), 687(10),  
 715(10), 813(70), 957(10), 986(70), 987(IP), 1032(30),  
 1150(50), 1169(20), 1226(10), 1235(80), 1269(60)  
 Steam Test: 140(20-30), 227(-), 658(20)  
 Stratigraphy: 255(00), 271(60), 389(10), 780(00)  
 Transportation: 188(10), 367(60), 561(-), 576(10), 707(10),  
 909(20), 1150(50), 1235(80), 1260(10)  
 Value: 389(10), 986(70)  
 Washability: 588(60), 923(60)

## BERING RIVER COAL MINE (SC)

Closure: 1081(20)  
 General: 514(20)  
 Leases: 514(20)  
 Mining: 658(20), 1081(20)  
 Production: 1081(20)

## BERING SEA (SW)

Rank: 782(00)  
 Reserves and Resources: 782(00)

## BETTLES (I)

General: 985(IP)

## BIBLIOGRAPHY

General: 11(70), 12(70), 194(70), 269(60), 294(70), 332(10),  
 341(20), 357(20), 411(70), 421(80), 917(80)  
 AR: 424(70), 793(70), 1268(70)  
 I: 580(30), 1268(70)  
 NW: 492(80)  
 SC: 512(10), 644(70), 736(60), 791(00), 904(60), 1268(70)  
 SW: 467(70), 1015(70)  
 Multiple Areas: 585(40), 747(70), 858(80), 1022(20), 1235(80),  
 1298(80)  
 Analysis: 1102(70), 1244(10)  
 Quadrangle: 432(70), 433(70), 434(70), 435(70), 436(70), 437(70),  
 438(70), 439(70)

BIDARKI CREEK (SC)  
Analysis: 704(40), 1125(40)  
Mining: 283(50)  
Stratigraphy: 704(40), 1125(40)

BIG BEND (AR)  
General: 517(60)

BIG BLACK RIVER (I)  
General: 338(00), 1054(1890)

BIG DELTA COAL FIELD  
Analysis: 1118(40)  
Exploration: 1118(40)

BIG RIVER (SW)  
General: 1037(10)  
Mining: 1037(10)

BILLY BEDS  
Analysis: 1170(40)  
Character: 425(80)  
Geology: 585(40)  
Washability: 925(80)

BILLY CREEK (SC)  
Analysis: 870(00)  
General: 796(10)  
Geology: 796(10), 870(00)  
Stratigraphy: 796(10)  
Structure: 796(10), 869(00), 870(00)

BLACK BEAR COAL CLAIM  
General: 681(10)

BLACK DIAMOND COAL COMPANY  
Coal Reports: 92(40)  
Freight Rates: 63(20)  
Mining: 1034(30)

BLACKBURN MINE (I)  
Analysis: 582(80)  
Geology: 582(80)  
History: 638(70)  
Mining: 638(70)  
Rank: 813(70)

**BLACKSMITHING**

General: 563(20), 818(00), 824(30)

**BLAINE COAL CLAIM**

General: 911(10)

**BLATCHFORD MINE (I)**

Analysis: 417(60), 446(00), 447(00), 582(80), 1041(10)

General: 338(00), 584(70), 1307(60)

Geology: 417(60), 446(00), 447(00), 582(80)

History: 638(70)

Mining: 447(00), 638(70), 859(00)

**BLIND RIVER (I)**

General: 584(70)

**BLUE BEAR COAL CLAIM**

General: 676(10)

**BLUFF CREEK (I)**

Analysis: 1141(30)

Stratigraphy: 826(40)

Structure: 826(40)

**BLUFF POINT MINE (SC)**

Analysis: 2(60), 279(50), 470(40), 1170(40)

General: 94(20), 283(50), 285(50), 310(20), 333(10), 776(10),  
845(20), 1093(10)

Geology: 267(50), 471(40), 1048(10), 1086(00)

History: 858(80)

Marketing Analysis: 356(20)

Mining: 332(10), 356(20), 471(40), 777(20), 1048(10)

Permit: 186(10)

Photographs: 279(50)

Production: 267(50), 356(20), 770(10)

Stratigraphy: 267(50), 1086(00)

Structure: 267(50), 1048(10), 1086(10)

Transportation: 356(20)

**BONANZA CREEK (I)**

Analysis: 585(40), 786(10)

General: 269(60), 447(00), 584(70)

Geology: 446(00), 585(40), 786(10), 901(00)

Stratigraphy: 446(00)

Structure: 786(10)



BONASILA RIVER (I)  
 General: 588(10)

BONNIFIELD REGION (I)  
 Analysis: 1005(50)  
 Geology: 390(10)  
 Stratigraphy: 390(10)  
 Structure: 390(10)

BOULDER CREEK (SC)  
 Analysis: 571(10), 744(10), 791(00), 796(10), 870(00) 1244(10)  
 General: 608(00)  
 Geology: 383(70), 407(10), 870(00), 796(10), 1014(70),  
 Location: 383(70)  
 Project Report: 1122(80)  
 Reserves: 635(70)  
 Structure: 1014(70)

BOUNDARY CREEK  
 Geology: 704(40)  
 Mining: 843(30)  
 Stratigraphy: 704(40)  
 Structure: 704(40)

BRADLEY SEAM (SC)  
 Analysis: 338(00)  
 General: 490(1890)

BRIGHTMAN and DeGEOFF SEAM (SE)  
 General: 490(1890)

BRIQUETTING  
 Alaska Railroad Area: 983(40)  
 Bering River Coal Fields: 473(-), 549(20)  
 Interior Coal Fields: 56(20), 774(40)  
 Matanuska Coal Field: 66(30), 138(30), 724(10)  
 Overview: 1261(40), 1345(-)

BRISTOL BAY (SW)  
 General: 338(00)  
 Mining: 478(10)

BROAD PASS COAL and DEVELOPMENT COMPANY (SC)  
 Analysis: 95(20)  
 General: 95(20), 161(50), 309(20), 311(20)  
 Mining: 334(20), 356(20)

## BROAD PASS MINE (SC)

Analysis: 2(60), 12(70), 58(20), 267(50), 269(60), 327(80),  
 470(80), 585(40), 813(70), 903(80), 904(60), 925(80),  
 926(IP), 959(60), 962(70), 1007(30), 1170(40), 1235(80)  
 Character: 925(80), 926(IP)  
 Development: 583(40)  
 Development Potential: 293(70)  
 Drilling: 593(40)  
 Environmental Impact: 1235(80)  
 Exploration: 168(50), 208(40), 667(50)  
 General: 227(60), 285(50), 392(30), 469(20), 514(20), 669(50)  
 Geology: 267(50), 327(80), 383(70), 471(40), 585(40), 675(50),  
 704(40), 925(80), 930(80), 1170(40), 1181(40)  
 History: 675(50), 858(80), 925(80)  
 Leases: 514(20)  
 Locations: 210(-), 671(70)  
 Map (ext.): 210(-), 1197(40)  
 Marketing Potential: 293(70)  
 Mining: 219(-), 327(80), 356(20), 383(70), 583(40), 666(50),  
 925(80), 984(70), 985(IP), 1081(20), 1199(70)  
 Mining Costs: 1235(80)  
 Overview: 984(70)  
 Petrography: 962(70)  
 Petrology: 930(80)  
 Production: 260(40), 267(40), 310(20), 959(60), 985(IP),  
 1067(20), 1235(80)  
 Rank: 269(60), 813(70), 1301(70)  
 Reserves: 11(70), 269(60), 293(70), 671(70), 1181(40), 1235(80)  
 Stratigraphy: 267(50), 930(80)  
 Structure: 327(80), 704(40), 959(60)  
 Transportation: 1235(80)  
 Washability: 925(80), 926(IP)

## BROOKS RANGE (AR)

Analysis: 585(40)  
 Development Potential: 1205(70), 1206(70)  
 Distribution: 266(70), 1040(20)  
 Geology: 384(70), 567(70), 585(40), 587(70), 1040(20)  
 Reserves: 384(70), 1188(70)

## BROWN BEAR COAL CLAIM

General: 372(10)

## BRUNO AGOSTINO MOOSE CREEK COAL COMPANY (SC)

Analysis: 131(20), 132(20), 141(20-30), 920(60)  
 Map: 131(20)  
 Mining: 131(20), 1068(20)  
 Production: 62(20)

BUBB CREEK (SC)  
 General: 818(00), 819(1890)

BUCKLAND BASIN (NW)  
 Analysis: 493(80)  
 General: 585(40)  
 Geology: 493(80)  
 Reserves: 492(80)

BUFFALO COAL MINING COMPANY (SC)  
 Buildings: 196(40)  
 Coal Handling: 196(40)  
 Equipment: 196(40)  
 General: 197(50), 232(40), 624(50), 1077(40), 1078(40)  
 Mining: 196(40), 1178(50)  
 Transportation: 196(40)  
 Ventilation: 196(40)

BUFFALO CREEK COAL MINE (SC)  
 Analysis: 588(60), 1005(50), 1170(40), 1194(40), 1297(60), 1303(60)  
 Closure: 52(40)  
 Coal Fire: 1209(50-70)  
 Development: 617(40), 620(40), 1076(40)  
 Development Potential: 582(80), 1194(40)  
 Drilling: 1076(40)  
 Exploration: 620(40), 1194(40)  
 Fusibility of Ash: 2(60)  
 Gas Explosion: 364(40)  
 General: 73(50), 134(40), 151(50), 284(50), 285(50), 667(50)  
 Geology: 267(50), 471(40), 585(40), 704(40), 1194(40), 1255(-),  
 1303(60)  
 Mine Map: 363(40), 364(40), 365(40), 1184(40), 1194(40)  
 Mining: 278(50), 286(50), 471(40), 588(60), 617(40), 620(40),  
 985(IP)  
 Preparation: 588(60), 589(50)  
 Production: 260(40), 267(40), 985(IP)  
 Reopen 1951: 588(60), 666(50), 980(50)  
 Reserves: 987(IP), 1076(40), 1194(40), 1303(60)  
 Stratigraphy: 1194(40)  
 Structure: 704(40), 1194(40)  
 Sulfur Content: 1297(60)  
 Transportation - Railroad Spur: 52(40)  
 Washability: 588(60)

## BURCH CONSOLIDATED COAL COMPANY

Analysis: 1041(10)  
Coal Survey Plat: 1168(00)  
Mining: 1046(10)

## BURNS COAL MINE

General: 95(20)  
Mining 357(20), 494(20), 495(20)

## BUSH MINE (I)

Analysis: 417(60), 446(00), 582(80)  
General: 584(70)  
Geology: 417(60), 446(00), 582(80)

## BUTLER COAL CLAIM

General: 373(10)

## BUTTE COAL CLAIM

General: 752(10)

## BUZZARD CREEK (I)

Geology: 1296(60)  
Structure: 1296(60)

## BYPRODUCTS

General: 533(70), 602(70), 691(IP), 852(IP), 854(70), 983(40)

## CACHE CREEK (SC)

Analysis: 825(10)  
General: 776(10)  
Geology: 407(10)  
History: 904(60)  
Mining: 771(10), 777(20), 825(10), 1048(10)  
Production: 825(10)  
Stratigraphy: 271(60)

## CACHE CREEK MINING COMPANY

Mining: 825(10)

## CALDERHEAD MINE (I)

Analysis: 470(40), 1170(40)  
General: 494(20)  
Geology: 471(40)  
Mining: 471(40), 495(20)

## CALIFORNIA COAL CLAIM

General: 374(10)

## CALIFORNIA CREEK (I)

Analysis: 470(40), 573(20), 959(60), 1235(80)

Environmental Impact: 1235(80)

General: 392(30)

Geology: 390(10), 398(10), 471(40), 1296(60)

Mining Costs: 1235(80)

Production: 959(60), 1235(80)

Reserves: 1235(80)

Structure: 390(10), 959(60)

Transportation: 1235(80)

## CAMP DANIEL

Geology: 560(10)

## CAMP COVE / STILLWATER

General: 512(10)

## CAMP CREEK (SC)

Analysis: 470(40)

General: 401(10)

## CANADIAN PACIFIC OIL and GAS CO.

General: 518(70)

## CANDLE (NW)

Analysis: 412(20), 470(40), 493(80), 571(10), 1170(40)

General: 316(70), 422(10), 631(10), 985(IP)

Geology: 471(40), 493(80)

Mining: 412(20)

## CANNEL COAL ROAD CO.

General: 143(20-30)

## CANNERIES

Coal Consumption: 58(20), 76(20), 98(30), 121(30)

## CANOE CREEK (SC)

General: 869(00)

## CANTWELL FORMATION

General: 393(20)

Geology: 354(10), 406(20), 580(30), 1039(20), 1335(70)

History: 858(80)

Stratigraphy: 580(30)

Structure: 580(30)

## CANTWELL RIVER

Analysis: 339(00), 446(00), 477(00), 478(10), 775(00)  
 General: 359(00), 1250(00)  
 Geology: 338(00), 344(20), 447(00), 775(00), 899(00)  
 Mining: 344(20)  
 Production: 344(20)  
 Stratigraphy: 447(00), 1288(70)  
 Structure: 344(20), 899(00)

## CANYON CREEK (SC)

Analysis: 470(40), 744(10), 778(00), 782(00), 1170(40), 1084(00),  
 1244(10)  
 Development Potential: 634(00)  
 General: 269(60), 405(30)  
 Geology: 280(50), 308(IP), 404(20), 471(40), 561(-), 769(50),  
 778(00), 1084(00), 1326(10)  
 Mining: 290(70), 714(10)  
 Reserves: 634(00)  
 Stratigraphy: 271(60), 782(00)  
 Structure: 271(60), 769(50), 1326(10)

## CAPE BEAUFORT (AR)

Analysis: 12(70), 270(60), 388(70), 493(80), 921(80), 999(00),  
 1309(60)  
 Bibliography: 921(80)  
 Character: 388(70), 918(70), 921(80)  
 Coking: 388(70), 918(70), 1121(60), 1309(60)  
 Development Potential: 898(70)  
 Drilling: 388(70), 1112(60)  
 Equipment: 1309(70)  
 General: 312(20), 659(70), 866(00), 1307(60)  
 Geology: 214(-), 270(60), 338(00), 384(70), 385(70), 386(IP),  
 388(70), 419(60), 445(00), 448(00), 493(80), 710(70),  
 898(70), 1054(1890)  
 History: 858(80)  
 Location: 319(1890), 384(70), 985(IP)  
 Map: 214(-)  
 Mineralogy: 921(80)  
 Mining: 419(60), 448(00), 848(70)  
 Permafrost: 898(70)  
 Petrography: 918(70), 921(80), 1267(70)  
 Rank: 441(10), 921(80), 1267(70)  
 Reserves: 214(-), 384(70), 385(70), 441(10), 492(80), 719(70)  
 Slurry Pipeline Potential: 898(70)  
 Stratigraphy: 270(60), 385(70), 921(80), 1309(60)  
 Structure: 270(60), 385(70), 419(60), 445(00), 448(00)

## CAPE BEAUFORT contd.

Trace Elements: 919(70), 921(80)

Washability: 1265(60)

## CAPE DANGER

Mining: 603(10)

## CAPE DOUGLAS (SC)

Analysis: 1085(00)

General: 490(1890)

Geology: 1085(00)

## CAPE DYER (AR)

Analysis: 12(70)

Geology: 445(00), 448(00), 1110(60)

Mining: 466(IP)

Paleobotany: 861(60)

Power Generation Potential: 466(IP)

Stratigraphy: 455(00), 448(00)

Structure: 455(00), 448(00)

## CAPE LEWIS FIELD (AR)

Analysis: 445(00), 448(00)

Geology: 445(00), 448(00)

Stratigraphy: 445(00), 448(00)

Structure: 445(00), 448(00)

## CAPE KOLIK (SW)

General: 1085(00)

## CAPE LISBURNE (AR)

Analysis: 12(70), 270(60), 329(10), 338(00), 339(00), 345(00),  
441(10), 445(00), 478(10), 600(10), 775(00), 782(00),  
783(00), 999(00), 1110(00), 1226(10), 1244(10),  
1250(70), 1307(60)

Character: 270(60)

Development: 1089(10)

Development Costs: 1140(70)

Development Potential: 634(00)

Economics: 535(70), 1140(70)

General: 175(30), 195(40), 324(00), 326(00), 359(00), 444(00),  
469(70), 546(20), 726(1880), 727(1890), 728(1890),  
804(70), 836(00), 858(80), 868(20), 1044(30), 1077(40),  
1090(10), 1109(1880), 1167(40), 1169(20), 1250(70)Geology: 329(10), 338(00), 344(20), 358(10), 445(00), 448(00),  
567(70), 775(00), 999(00), 1010(60), 1018(30), 1150(50)

## CAPE LISBURNE contd.

History: 600(10), 858(80)  
 Locations: 1108(1880)  
 Marketing: 1140(70)  
 Mining: 801(60), 859(00), 866(00), 985(IP), 1046(10)  
 Production: 985(IP), 1140(70)  
 Rank: 270(60), 341(20), 441(10), 782(00)  
 Reserves: 358(10), 441(10), 634(00), 694(00), 702(70), 782(00),  
 1107(1880), 1249(70)  
 Stratigraphy: 270(60), 448(00), 1307(60)  
 Structure: 270(60), 448(00), 999(00), 1018(30)  
 Transportation: 1140(70)

CAPE NOME (NW)  
 General: 195(40)

CAPE SABINE (AR)  
 Analysis: 12(70)  
 Exploration: 323(00)  
 Geology: 445(00), 448(00)  
 Mining: 866(00)  
 Structure: 448(00)

CAPE SPENCER (SC)  
 General: 490(1890)

CAPE STARITCHKOFF  
 General: 491(1890)

CAPE THOMPSON (AR)  
 Analysis: 12(70), 15(70)  
 BTU: 15(70)  
 General: 866(00)  
 Geology: 15(70), 445(00), 448(00), 1110(60)  
 Rank: 15(70)  
 Structure: 448(00)  
 Stratigraphy: 448(00)  
 Washability: 15(70)

CAPE VANCOUVER (SE)  
 General: 813(70)

CAPPS COAL FIELD, see BELUGA COAL FIELD

CARIBOU CREEK (SC)  
 Analysis: 470(40), 473(-), 476(10), 478(10), 744(10), 778(00),  
 780(00), 782(00), 787(00), 879(00), 1084(00), 1170(40)



## CARIBOU CREEK contd.

Development Potential: 454(70)  
 General: 280(50), 384(10), 548(10), 832(20), 985(IP), 1307(60)  
 Geology: 471(40), 476(10), 478(10), 561(-), 778(00), 780(00),  
 870(00), 986(70), 1084(00), 1326(10)  
 Mining: 311(20), 356(20)  
 Reserves: 986(70)  
 Stratigraphy: 778(00), 787(00)  
 Structure: 778(00), 787(00)  
 Washability: 920(60)

## CARBON DISTRICT (SC)

Geology: 481(10)

## CARBON MINE

Analysis: 1170(40)  
 Development: 553(20)  
 Geology: 471(40)  
 Map: 557(-)  
 Mining: 471(40)

## CARBON MOUNTAINS

Analysis: 470(40), 572(10), 744(10), 778(00), 780(00), 782(00),  
 1170(40), 1244(10)  
 Claims: 555(10)  
 General: 280(50), 523(10), 548(10)  
 Geology: 471(40), 475(10), 778(00), 780(00)  
 Reserves: 987(IP)  
 Stratigraphy: 555(10), 778(00), 780(00), 782(00)  
 Structure: 475(10), 778(00), 780(00)

## CARBON MOUNTAIN ANTHRACITE COAL COMPANY

General: 422(10), 530(10), 714(10), 756(10), 1046(10)

## CARBON MOUNTAIN COAL COMPANY

Coal Survey Plat: 1168(00)  
 General: 379(10)

## CARBON RIDGE (SC)

Geology: 475(10), 478(10), 484(10)  
 Structure: 479(10)

## CARBONIZATION

General: 189(10), 285(50), 564(20), 774(40), 884(40), 885(50),  
 1005(50), 1006(40), 1345(-)

## CARIBOU (I)

Analysis: 1102(70)

CARIBOU BED (I)  
General: 924(70)

CARIBOU CREEK (SC)  
General: 796(10)  
Geology: 796(10)  
Structure: 796(10)

CARPENTER CREEK (SC)  
Analysis: 735(20)  
Geology: 735(20)  
Structure: 735(20)

CASTLE MOUNTAIN (SC)  
Analysis: 924(70), 962(70), 1311(60)  
Character: 924(70)  
Cleaning: 1311(60)  
Coking: 1311(60)  
Geology: 789(10), 1311(60)  
Map (Strat.): 656(20)  
Mining: 1323(60), 1324(60)  
Petrography: 962(70)  
Reserves: 987(IP)  
Structure: 789(10), 791(00)  
Washability: 920(60), 924(70)

CASTLE MOUNTAIN COAL COMPANY (SC)  
Contracts: 171(50)  
General: 20(50), 24(50), 768(50)  
Tipple Analysis: 241(60), 243(60)

CENTRAL ALASKA POWER POOL  
General: 907(30)

CENTRAL ALASKA REGION  
Overview: 1239(70)

CHAKACHATNA RIVER  
Reserves: 509(70)

CHANDLER CREEK (AR)  
Geology: 517(60)  
Structure: 517(60)

CHANDLER FORMATION (AR)  
Drilling: 966(50)

## CHANDLER LAKE

General: 316(70)

## CHANDLER RIVER (AR)

Analysis: 270(60)

## CHAPIN BAY

Analysis: 1008(30)

## CHARLEY CREEK

Analysis: 470(40), 1170(40)

Geology: 471(40)

## CHARLEY RIVER (I)

Analysis: 744(10)

General: 316(70), 985(IP)

Geology: 446(00)

Reserve: 317(70)

Stratigraphy: 446(00)

Transportation: 317(70)

## CHARLOTTE DISTRICT

Development: 561(-)

Development Potential: 578(10)

Geology: 561(-)

## CHARLOTTE SEAM

Analysis: 778(00)

Geology: 778(00)

Stratigraphy: 778(00)

## CHARLOTTE LAKE ALASKA COAL COMPANY

General: 422(10), 916(10)

Mining: 1046(10)

## CHATHAM STRAIT (SE)

Analysis: 600(10)

History: 600(10), 858(80)

## CHATHENDA CREEK

Geology: 399(10)

## CHEENEETNUK RIVER (SW)

General: 269(60), 1015(70)

## CHESHNINA RIVER (SC)

Geology: 818(00)

Structure: 818(00)

## CHICAGO CREEK (NW)

Analysis: 269(60), 329(10), 412(20), 441(10), 470(40), 493(80),  
585(40), 744(10), 927(RIP), 1124(40), 1126(10),  
1170(40), 1244(10)

Claims: 371(10)

Development: 1028(30), 1029(30)

Development Potential: 517(RIP), 1089(10)

General: 269(60), 302(40), 333(10), 352(10), 631(10), 845(20),  
877(20), 1005(50), 1090(10), 1032(30), 1036(40)

Geology: 329(10), 471(40), 493(80), 585(40), 645(10), 646(00),  
839(00)

History: 638(70), 858(80), 1124(40)

Marketing: 1028(30), 1029(30)

Mining: 329(10), 332(10), 357(20), 412(20), 517(IP), 633(20),  
638(70), 645(10), 646(00), 744(10), 836(00), 984(70),  
985(IP), 1019(00), 1022(20), 1027(30), 1028(30),  
1029(30), 1030(30), 1031(30), 1124(40)

Overview: 984(70)

Power Generation Plan: 349(00)

Production: 269(60), 633(20), 985(IP), 1028(30), 1029(30)

Rank: 269(60)

Reserves: 492(80), 517(IP), 694(00)

Structure: 645(10), 646(00)

Washability: 927(RIP)

## CHICAGO GULCH

General: 407(10)

## CHICKALOON COAL COMPANY (SC)

General: 1113(10)

History: 193(10)

Map: Buildings, Tracks: 128(20)

Mining: 415(20), 771(10)

Mining Potential: 186(10)

Stratigraphy: 1257(20)

## CHICKALOON COAL MINE (SC)

Analysis: 2(60), 232(40), 269(60), 281(60), 331(10)  
389(10), 395(20), 415(20), 470(40), 478(10), 498(50),  
571(10), 572(40), 573(20), 598(60), 609(00), 610(00),  
625(60), 626(60), 656(20), 744(10), 776(10), 789(10),  
790(00), 791(00), 795(10), 803(10), 869(00), 870(00),  
904(60), 920(60), 924(70), 947(70), 959(60), 962(70),  
1169(20), 1170(40), 1244(10), 1299(60), 1300(00)

Buildings: 1081(20)

## CHICKALOON COAL MINE contd.

Character: 186(10), 389(10), 395(20), 609(00), 610(00), 791(00),  
 924(70), 949(20)  
 Closure: 139(20), 1068(20)  
 Coking: 395(20), 609(00), 625(60), 626(60), 837(60), 1307(00)  
 Correspondence: 54(20), 60(20), 1013(20)  
 Development: 309(20), 310(20), 335(20), 395(20), 550(10),  
 610(00), 664(10), 724(10), 803(10), 834(20), 948(20),  
 949(20), 956(10), 1093(10), 1096(10), 1169(20)  
 Development Potential: 578(10), 831(20), 979(70)  
 Drilling: 139(20), 656(20)  
 Economic Potential: 979(70)  
 Equipment: 664(10)  
 Exploration: 179(10), 187(10), 309(20), 310(20), 1112(-)  
 Freight Rates: 63(20)  
 General: 13(70), 58(70), 122(20+), 334(20), 395(20), 494(20),  
 514(20), 531(10), 546(20), 608(00), 776(10), 805(IP),  
 819(1890), 832(20), 1024(30), 1025(30), 1026(30),  
 1017(20), 1031(30), 1132(30)  
 Geology: 187(10), 232(40), 269(20), 394(60), 415(20), 459(70),  
 471(40), 476(10), 478(10), 481(10), 585(40), 609(00)  
 610(10), 769(50), 789(10), 795(10), 870(00), 1142(30),  
 1334(10)  
 Hazards: 803(10)  
 History: 225(20), 638(70), 858(80), 1314(30)  
 Leases: 389(10), 514(20), 1071(20)  
 Maps: 68(30), 781(10)  
 Marketing Potential: 752(60)  
 Mining: 330(10), 357(20), 395(20), 415(20), 416(20), 471(40),  
 638(70), 656(20), 781(10), 795(10), 801(60), 959(60),  
 984(70), 1024(30), 1027(30), 1081(20)  
 Mining Costs: 187(10), 644(10), 803(10), 1096(10)  
 Naval Alaskan Coal Commission: 1081(20) see also this subject  
 heading  
 Naval Reserve: 904(60)  
 Operation Statistics: 225(20), 1013(20)  
 Overview: 607(00), 779(10)  
 Paleobotany: 192(60)  
 Petrography: 162(70), 625(60), 626(60)  
 Photography: 50(10), 656(20), 416(20), 795(10)  
 Production: 62(60), 310(20), 416(20), 509(70), 803(10), 947(20),  
 949(20), 959(60), 1169(20), 1307(60)  
 Rank: 389(10), 959(60)  
 Reopened: 1067(20)  
 Reserves: 11(70), 509(70), 664(10), 724(10), 889(IP), 948(20),  
 949(20), 1096(10), 1307(60)  
 Steam Tests: 277(-), 356(20)

## CHICKALOON COAL MINE contd.

Stratigraphy: 415(20), 656(20), 789(10), 790(00), 791(00),

795(10), 869(00), 1257(20)

Structure: 389(10), 415(20), 416(20), 609(00), 610(00), 656(20),

724(10), 769(50), 781(10), 789(10), 795(10), 869(00),

870(00), 947(20), 948(20), 1307(60)

Transportation: 69(30), 188(10), 955(10)

Utilization: 724(10)

Washability: 625(60), 924(70)

Washery: 1013(20)

## CHICKALOON FORMATION (SC)

Analysis: 394(40)

General: 1018(30)

Geology: 394(40), 397(30)

## CHICKEN (I)

Analysis: 470(40), 585(40), 820(30), 824(30), 827(30), 1170(40)

General: 269(60), 584(70), 985(IP)

Geology: 471(40), 820(30), 1315(50)

Mining: 469(70)

Structure: 820(30), 824(30)

## CHICKEN CREEK (SC)

Analysis: 1006(40)

Carbonization: 1006(40)

Map (geol.): 1286(70)

## CHIGNIK BAY (SW)

General: 726(1880)

## CHIGNIK BAY COAL and FISH COMPANY (SW)

General: 321(1890)

## CHIGNIK COAL FIELD (SW)

Analysis: 255(00), 269(60), 356(20), 469(70), 470(40), 659(70),

730(20), 744(10), 926(IP), 1049(10), 1102(70), 1170(40),

1226(10)

Character: 926(IP), 254(10)

Development Potential: 293(70)

General: 277(60), 302(40), 321(1890), 352(10), 477(10),

490(1890), 531(10), 546(20), 804(70), 819(1890), 836(00),

1169(20), 1250(00), 1318(70)

## CHIGNIK COAL FIELD contd.

Geology: 338(00), 368(60), 467(70), 471(40), 478(10), 585(40),  
730(20), 1018(30), 1085(00), 1150(50)

History: 858(80)

Land Status: 504(70)

Mining: 254(10), 255(00), 329(10), 469(70), 477(10), 730(20),  
801(60), 859(00); 985(IP), 1018(30), 1046(10)

Overview: 808(70), 984(70)

Production: 985(IP)

Rank: 269(60), 341(20), 441(10), 813(70), 1301(70)

Reserves: 9(70), 11(70), 255(00), 293(70), 469(70), 504(70),  
534(00), 694(00), 1249(70)

Stratigraphy: 254(10), 255(00), 269(60), 467(70), 730(20),  
1049(20)

Structure: 254(10), 255(00), 338(00), 467(70), 730(20), 1307(60)

Transportation: 254(10)

Washability: 467(70), 926(IP)

## CHIGNIK COAL MINING CO. (SW)

General: 352(10)

## CHIGNIK FORMATION (SW)

Geology: 501(70), 586(40)

Paleontology: 501(70)

## CHILKAT RIVER (SC)

Analysis: 338(00)

Geology: 526(1890)

Reserves: 534(00)

## CHINALDNA RIVER (SC)

General: 738(00)

## CHISANA - WHITE RIVER

Geology: 391(10), 399(10)

## CHISTOCHINA RIVER

Analysis: 478(10), 775(00), 782(00), 818(00), 1226(10), 1244(10)

Development: 775(00)

General: 339(00), 359(00)

Geology: 775(00), 818(00)

Production: 775(00)

Structure: 818(00)

## CHITISTONE RIVER (SE)

Analysis: 339(00), 478(10), 775(00), 782(00), 818(00), 1244(10)

General: 359(00)

Geology: 775(00), 846(10), 848(00)

## CHITNA VALLEY (SC)

Reserves: 848(00)

## CHRISTOPHER PROSPECT (SC)

Analysis: 1244(10), 1170(40)

General: 643(10)

## CHUGACH (SC)

Development: 702(70)

General: 585(40)

Geology: 512(10), 576(10), 1326(10)

Structure: 512(10), 576(10)

## CHUGACHIK BAY

Mining: 801(60)

## CHUITKILNACHINA CREEK (SC)

Reserves: 509(70)

## CHUITNA RIVER (SC)

Analysis: 271(60), 281(60), 507(80), 644(70), 810(70), 812(70),  
1235(80)

Character: 296(80)

Coal Fire: 271(60)

Development: 525(70), 887(70)

Drilling: 812(70)

Economic Potential: 296(80)

Environmental Impact: 1235(80)

Gasification Potential: 811(70), 812(70)

General: 6(70), 13(70), 405(30)

Geology: 296(80), 327(80), 644(70), 910(80), 997(IP)

History: 638(70)

Leases: 296(80)

Mining: 296(80), 638(70), 733(70)

Mining Costs: 1235(80)

Rank: 810(70), 812(70)

Reclamation: 296(80)

Reserve: 810(70), 812(70), 1235(80)

Stratigraphy: 271(60), 910(80)

Transportation: 296(80), 1235(80)

## CHUKCHI SEA (AR)

Analysis: 12(70)

General: 985(IP)

Reserves: 11(70)



## CHULITNA COAL COMPANY

Correspondence: 99(20)

## CHULITNA REGION (SC)

General: 407(10), 1036(40), 1141(30)

Geology: 401(10), 423(70), 529(1890), 972(30)

Structure: 423(70)

Reserves: 972(30)

## CIRCLE (I)

Analysis: 446(00)

General: 338(00), 985(IP)

Geology: 446(00)

Mining: 859(00)

Reserve: 317(70)

Stratigraphy: 446(00)

Transportation: 317(70)

## CLAIMS

See also individual claims.

General: 726(1880), 1025(30), 1232(10), 1247(10)

History: 574(10)

List: 1224(10)

Map: 1182(70)

SC: 574(10), 714(10), 739(10), 776(10)

## CLAM GULCH (SC)

Dating Methods: 1131(70)

Petrography: 1131(70)

Structure: 794(10)

Volcanic Ash Partings: 1131(70)

## CLEAR CREEK

Analysis: 470(40), 571(10), 744(10), 780(00), 782(00), 1170(40),  
1244(10)

General: 280(50)

Geology: 471(40), 478(10), 561(-), 780(00), 1084(00)

Stratigraphy: 780(00), 782(00)

Structure: 478(10)

## CLEARWATER CREEK (I)

General: 843(30)

Geology: 406(20), 1039(20)

## CLEMENS THEIN MINE (I)

Mining: 859(00)

## CLEVELAND CONSOLIDATED COAL COMPANY

General: 422(10)

Mining: 1046(10)

## CLEVELAND MINING DISTRICT (SC)

Mining: 290(70)

## CLIFF CREEK (NW)

Analysis: 338(00)

Geology: 446(00)

Stratigraphy: 446(00)

## CLIMATIC CONDITIONS

General: 424(70), 566(10), 750(70), 793(70), 1235(80), 1258(80),  
1274(80), 1312(60)

## COAL BAY (SC)

General: 255(00), 362(20), 491(1890), 819(1899), 875(10), 1109(1880)

Geology: 338(00)

History: 638(70), 858(80)

Mining: 638(70), 859(00)

## COAL CAPE (SW)

Geology: 338(00)

## COAL CENTER

History: 638(70)

Mining: 638(70)

## COAL COMPANY OF ALASKA

General: 19(50)

## COAL CONVERSION

General: 975(70), 1058(70), 1059(70)

## COAL CONTRACTS

General: 24(60), 29(60), 30(60), 33(60), 61(30), 69(30), 84(50),  
141(20-30), 197(50), 657(20), 952(10), 1224(10)

## COAL COVE (SC)

Analysis: 12(70)

Geology: 794(10)

Mining: 794(10)

Structure: 794(10)

## COAL CREEK (AR)

General: 764(10)

## COAL CREEK (I)

Analysis: 338(00), 446(00), 1042(10), 1201(60)  
 Coal Fires: 271(60)  
 Development: 58(20)  
 General: 395(20), 447(00), 584(00), 879(20), 901(00), 1022(70),  
 1024(30), 1025(30), 1036(40)  
 Geology: 287(50), 391(10), 398(10), 399(10), 406(20), 446(00),  
 449(00), 774(40), 840(30), 847(10), 899(00), 1042(10),  
 1054(1890), 1201(60), 1295(50), 1296(60), 1325(60)  
 Location: 1289(70)  
 Mining: 1022(20)  
 Reserves: 509(70), 724(10)  
 Stratigraphy: 271(60), 447(00)  
 Structure: 287(50), 899(00), 1296(60)

## COAL CREEK (SC)

Analysis: 2(60), 74(20), 279(50), 470(40), 572(10), 656(20),  
 744(10), 759(60), 769(50), 782(00), 784(10), 790(00),  
 791(00), 870(00), 972(30), 973(30), 1006(40), 1244(10)  
 Carbonization: 1006(40)  
 Character: 389(10), 395(20), 927(30)  
 Closure: 1068(20)  
 Development: 514(20), 608(00), 819(1890), 832(20), 838(10),  
 948(20), 1030(30)  
 General: 261(20), 285(50), 395(20), 1017(20), 1048(10), 1307(60)  
 Geology: 393(20), 481(10), 585(40), 656(20), 675(50), 769(50),  
 789(10), 794(10), 870(00), 1086(00)  
 History: 858(80)  
 Leases: 389(10), 514(20), 1071(20)  
 Marketing: 1030(30)  
 Mining: 675(50), 1029(30), 1030(30), 1031(30), 1081(20)  
 Naval Alaskan Coal Commission: 1081(20), see also this subject  
 heading  
 Overview: 808(70)  
 Photographs: 656(20)  
 Production: 1030(30)  
 Reserves: 509(70), 724(10), 972(30)  
 Stratigraphy: 271(60), 389(10), 656(20), 782(00), 790(00), 791(00),  
 794(10), 972(30), 993(-), 1086(00)  
 Structure: 279(50), 656(20), 769(50), 794(10), 972(30), 1086(00)

## COAL CREEK (SE)

Analysis: 760(70)  
 Geology: 760(70)

## COAL CREEK (SW)

Stratigraphy: 867(00)

Structure: 867(00)

## COAL DUST

General: 303(50)

## COAL ENVIRONMENTS

General: 442(70)

## COAL FIRES

AR: 338(70), 740(10)

I: 53(-), 125(20-30), 126(40-60), 151(50), 398(I), 619(40),  
980(50), 1119(70), 1209(50-70), 1295(50)SC: 132(20), 232(40), 285(50), 305(70), 703(50), 1056(60),  
1119(70), 1179(50), 1204(70), 1207(50), 1209(50-70),  
1213(50-70), 1214(70), 1220(50), 1310(50)

## COAL HARBOR MINE (SC)

Analysis: 255(00), 470(40), 744(10), 1170(40)

General: 324(00)

Geology: 255(00), 471(40), 1085(00), 1105(1980)

History: 638(70)

Mining: 471(40), 638(70)

Reserves: 534(00), 1107(80)

Stratigraphy: 255(00)

## COAL LAKE (SC)

Geology: 769(50)

Structure: 769(50)

## COAL MINE NO. 1 (I)

Analysis: 447(00)

General: 584(70)

Geology: 447(00)

Mining: 447(00)

Structure: 447(00)

## COAL MINE CREEK

Analysis: 413(20)

Mining: 413(20), 1066(20)

## COAL POINT (SC)

History: 858(80)

## COAL STORAGE

Anchorage Coal Docks Photographs: 50(10)  
 General: 60(20), 70(40), 71(40), 72(40), 122(20+), 701(70),  
 857(IP), 960(IP)  
 Seward: 68(30)

## COAL TESTING LABORATORY - ANCHORAGE

Correspondence: 146(40-50)  
 General: 82(50), 84(50)  
 Report: 1007(30), 1008(30), 1009(30), 1010(30)

## COAL VALLEY FORMATION

General: 254(10), 772(70)  
 Geology: 501(70)

## COAL WASHERY PLANT - SUTTON

See Sutton Coal Washery Plant

## COALING STATIONS

93(50), 969(00), 970(00), 971(00)

## COLD BAY (SW)

General: 490(1890)  
 Geology: 1085(00)

COKING COAL: 202(40-50), 251(-), 344(20), 775(00), 784(70), 985(IP),  
 987(IP), 1199(70)

## Regions:

AR: 386(IP), 731(IP), 734(60), 918(70), 921(80), 924(70),  
 1149(60), 1211(60), 1302(60), 1309(60)

I: 625(60), 1262(60)

SC: 395(20), 563(20), 609(00), 625(60), 626(60), 780(00),  
 782(00), 783(00), 790(00), 791(00), 837(60), 909(20),  
 918(70), 924(70), 986(70), 1026(30), 1149(60), 1169(20),  
 1262(60), 1322(50)

## COLLINSON POUND

General: 740(10)

## COLORADO STATION (I)

Analysis: 235(50), 470(40), 1170(40)  
 Geology: 471(40)  
 History: 858(80)  
 Mining: 471(40)

## COLVILLE RIVER BASIN (AR)

Analysis: 269(60), 270(60), 327(80), 329(10), 478(10), 517(60),

## COLVILLE RIVER BASIN - Analysis contd.

585(40), 637(60), 775(00), 782(00), 999(00), 1005(50),  
 1044(30), 1226(10), 1235(80), 1244(10)

Boghead Coal: 1117(20)

Character: 339(60), 1117(20), 1206(70)

Development Potential: 634(00), 1205(70), 1206(70)

Drilling: 967(50)

Environmental Impact: 1235(80)

General: 359(00), 491(1890), 917(80), 1250(00)

Geology: 270(60), 327(80), 329(10), 338(00), 358(10), 445(00),  
 581(70), 585(40), 710(70), 775(00), 999(00), 1040(20),  
 1044(30)

History: 858(80), 999(00)

Mining: 327(80)

Mining Costs: 1235(00)

Overview: 984(70)

Production: 1235(80)

Rank: 269(60), 441(10), 1307(60)

Reserves: 358(10), 424(70), 634(00), 710(70), 1110(70), 1235(80),  
 1333(70)

Structure: 269(60), 270(60), 327(80), 445(10), 999(00), 1040(20)

Transportation: 1235(80)

## COMBUSTION OF COAL

General: 474(-)

## CONSOLIDATED NO. 1 (SC)

Mining: 1046(10)

## CONSOLIDATED NO. 2 (SC)

Mining: 1046(10)

## CONSUMPTION, see UTILIZATION

## CONTROLLER BAY COAL COMPANY (SC)

Analysis: 554(10)

Claims: 554(10)

Coal Survey Plats: 1168(00)

Explosions: 544(10)

General: 530(10)

Geology: 554(10)

History: 544(10)

Marketing Potential: 554(10)

Mining: 554(10)

## CONTROLLER BAY COAL FIELD (SC)

Analysis: 329(10), 338(00), 448(00), 551(-), 778(00), 782(00)  
 Character: 324(00), 548(10)  
 Claims: 577(00), 688(10)  
 Development: 348(00), 551(-)  
 Development Potential: 548(10), 578(10), 634(00), 782(00)  
 General: 177(10), 190(10), 326(00), 346(00), 360(10), 422(10),  
 776(10), 836(00), 845(20), 1055(00)  
 Geology: 329(10), 337(10), 338(10), 345(00), 358(10), 360(10),  
 512(10), 526(1890), 551(-), 576(10), 714(10), 752(10),  
 754(10), 778(00), 782(00), 846(10), 1326(10)  
 Map: 782(00)  
 Marketing Analysis: 252(60), 548(10), 782(00)  
 Mining: 80(60)  
 Production: 548(10)  
 Reserves: 345(00), 360(10), 634(00), 752(10), 754(10), 782(00)  
 Stratigraphy: 512(10), 780(00), 782(00)  
 Transportation: 548(10)

## COOK INLET COAL FIELD (SC)

Analysis: 255(00), 281(60), 327(80), 329(10), 338(00), 644(70),  
 799(70), 1005(50), 1085(00), 1170(40)  
 Character: 925(80)  
 Claims: 1168(00)  
 Development: 353(10), 639(50)  
 Development Potential: 482(10), 545(70), 634(00), 721(IP),  
 722(00), 888(70), 938(70), 979(70), 1123(70)  
 Economic Potential: 644(70), 979(70)  
 Environmental Deposition: 1130(IP)  
 Exploration: 888(70)  
 Gasification Potential: 811(70)  
 General: 1(00), 6(70), 13(70), 190(10), 283(50), 285(50), 290(70),  
 302(40), 309(20), 337(10), 346(00), 354(10), 405(30),  
 407(10), 480(10), 524(70), 599(00), 608(00), 622(50),  
 728(1890), 738(00), 777(20), 796(10), 804(70), 845(20),  
 858(80), 861(60), 875(10), 883(30), 985(IP), 1108(1880),  
 1109(1880), 1250(00), 1296(60)  
 Geology: 255(00), 281(60), 327(80), 329(00), 338(00), 345(00),  
 393(20), 394(40), 402(30), 406(20), 415(20), 430(80),  
 529(1890), 585(40), 604(60), 644(70), 769(50), 794(10),  
 939(30), 998(70), 1085(00), 1086(00), 1105(1880),  
 1150(50), 1326(10), 1334(60)  
 History: 193(10), 630(10), 858(80)  
 Land Status: 265(70)  
 Methane: 430(80)  
 Mining: 322(00), 327(80), 393(20), 466(IP), 469(70), 694(00),  
 794(10), 825(10), 1046(10)

## COOK INLET COAL FIELD contd.

Overview: 1239(70)  
Permits: 228(10-20)  
Power Generation Potential: 466(IP), 815(70)  
Production: 728(10-30), 1067(20)  
Rank: 281(60), 341(20), 441(10), 782(00)  
Reserves: 358(00), 482(10), 534(00), 545(70), 639(50), 722(00),  
782(00), 812(70), 938(70), 987(IP), 1150(50), 1249(70)  
Slurry Pipeline: 644(70)  
Stratigraphy: 717(60), 794(10), 1086(00)  
Structure: 327(80), 769(50), 794(10), 998(70)  
Washability: 925(80)  
Volcanic Ash Partings: 1130(IP)

## COOK INLET COAL FIELD COMPANY

History: 859(00)  
Mining: 801(60)

## COOK INLET CORPORATION

General: 902(IP)

## COOK INLET MINE

Analysis: 470(40)

## COOK INLET TRANSPORTATION COMPANY

General: 875(10)

## COOPER COAL and COMMERCIAL COMPANY

General: 290(70)

## COOPER COAL BED (SC)

Analysis: 1170(40)  
Geology: 283(50), 704(40)

## COOPER CREEK

Geology: 1086(00)  
Mining: 1086(00)  
Stratigraphy: 1086(00)  
Structure: 1086(00)

## COPPER RIVER and NORTHWESTERN RAILROAD CORPORATION

General: 1222(10)



## COOPER RIVER REGION (SC)

Analysis: 329(10), 478(10)  
 General: 358(10), 394(40), 585(40), 819(1890),  
 Geology: 329(10), 338(00), 846(10)  
 Rank: 394(40), 782(00)  
 Reserves: 782(00)

## CORDOVA (SC)

General: 316(70), 836(00), 1123(70)

## CORTELLA COAL CORPORATION (SC)

Analysis: 923(60)  
 General: 473(-)  
 Washability: 923(60)

## CORWIN BLUFF (AR)

Analysis: 12(70), 269(60), 270(60), 388(70), 448(00), 637(60),  
 1044(30), 1235(80)  
 Coking: 1307(60)  
 Drilling: 388(70)  
 Environmental Impact: 1235(80)  
 General: 312(20), 917(80)  
 Geology: 270(60), 344(20), 384(70), 386(IP), 388(70), 448(00),  
 585(40), 710(70), 1040(20), 1044(30)  
 History: 638(70), 858(80)  
 Location: 388(70)  
 Mining: 333(10), 338(00), 448(00), 458(70), 638(70), 866(00)  
 Mining Costs: 1235(80)  
 Production: 458(70), 1235(80)  
 Rank: 269(60)  
 Reserves: 384(70), 424(70), 1235(80), 1333(20)  
 Stratigraphy: 270(60), 448(00), 1044(30), 1303(60)  
 Structure: 270(60), 448(00), 1040(20), 1044(30)  
 Transportation: 1235(80)

## CORWIN FORMATION (AR)

Analysis: 3(80)  
 Character: 3(80)  
 Geology: 3(80), 445(00), 458(70), 731(IP), 981(50), 982(50)  
 Mining: 731(IP)  
 Stratigraphy: 445(00), 731(IP)  
 Structure: 445(00), 458(70), 731(IP)  
 Trace Element: 3(80)

## CORWIN MINES (AR)

Analysis: 493(80), 999(00)  
 General: 478(10)  
 Geology: 493(80)  
 Mining: 1046(10)  
 Resources: 492(80)

## CORWIN TRADING COMPANY

General: 338(00), 445(00), 866(00)

## COSTELLO CREEK (SC)

Analysis: 2(60), 12(70), 470(40), 959(60), 1005(50), 1170(40),  
 1235(80), 1281(40)  
 Closure: 1076(40)  
 Development: 583(40)  
 Drilling: 1200(40)  
 Environmental Impact: 1235(80)  
 General: 151(50), 394(40), 985(IP)  
 Geology: 383(70), 423(70), 471(40), 585(40), 1281(40)  
 History: 858(80)  
 Locations: 383(70)  
 Maps, (ext.): 213(40)  
 Mine Map: 1200(40)  
 Mining: 471(40), 583(40), 1235(80)  
 Production: 959(60), 1235(80)  
 Reserves: 1200(40), 1235(80), 1281(40)  
 Structure: 423(70), 959(60), 1281(40)  
 Transportation: 1235(80)

## COTTONWOOD CREEK (SC)

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I: 505(IP), 507(80), 938(70), 1011(80), 1332(60)

NW: 492(80)

SC: 252(60), 308(IP), 504(70), 507(80), 508(70), 545(70), 721(IP),  
733(70), 800(IP), 863(70), 889(IP), 902(IP), 938(70), 997(IP),  
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652(70), 686(60), 702(70), 706(IP), 712(60),  
750(70), 797(80), 805(IP), 808(70), 858(80),  
888(70), 889(IP), 895(IP), 940(70), 985(IP),  
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 Character: 924(70)  
 Development Potential: 293(70)  
 Drilling: 1308(70)  
 Economics: 535(70)  
 Environmental Impact: 1235(80)  
 General: 277(60), 469(70), 804(70), 808(70)  
 Geology: 327(80), 585(40), 840(50), 924(50), 1294(50)  
 Location: 1294(50)

## JARVIS CREEK COAL FIELD contd.

Mining: 327(80), 924(70), 984(70), 985(IP), 1185(50)  
 Petrology: 930(80), 1264(60)  
 Production: 959(60), 985(IP), 1235(80)  
 Rank: 269(70), 813(70)  
 Reserves: 11(70), 293(70), 535(70), 813(70), 853(70), 1235(80),  
 1264(60), 1294(50), 1308(70)  
 Stratigraphy: 840(50), 930(80), 1125(40), 1294(50), 1308(70)  
 Structure: 327(80), 659(70), 704(40), 840(50), 959(60), 1294(50)  
 Transportation: 1235(80)  
 Washability: 924(70)

## JEWEL RIDGE COAL COMPANY of VIRGINIA

Exploration: 168(50)  
 General: 19(50), 21(50), 746(60), 1307(60)  
 Marketing Potential - Japan: 172(50)

## JOHN HARTLINE GROUP

Analysis - P.: 556(10)  
 Geology: 556(10)

## JOHN RIVER See also TRAMWAY BAR (I)

General: 584(70), 999(00), 1038(10), 1044(30)  
 Rank: 813(70)

## JOHNSON CREEK

General: 985(IP)  
 Geology: 308(IP)  
 Reserves: 987(IP)  
 Stratigraphy: 271(60)

## JOHNSON TUNNEL (SW)

Analysis: 744(10)  
 Mining: 255(00)

## JONESVILLE (SC)

Analysis: 132(20), 235(50), 236(50), 237(50), 238(50), 239(50),  
 240(50), 241(60), 242(60), 243(60), 244(60), 245(60),  
 246(60), 247(60), 248(60), 249(60), 250(60), 862(40),  
 904(60), 924(70), 1005(50)  
 Coal Reports: 92(40)  
 Development Potential: 1205(70)  
 Explosion: 1074(30)  
 Freight Rates: 63(20)  
 General: 394(40)  
 Geology: 458(70), 459(70)  
 History: 638(70)  
 Mining: 286(50), 638(70), 1075(40), 1076(40)  
 Washability: 924(70)

## JONESVILLE COAL COMPANY (SC)

Production: 144(30)

## JONESVILLE MINE (SC)

Analysis: 962(70)

General: 167(50)

Petrography: 962(70)

Stratigraphy: 1006(40)

## JOSEPHINE COAL CLAIM (SC)

General: 375(10)

## KACHEMAK BAY (SC)

Analysis: 12(70), 339(00), 441(10), 448(00), 470(40), 552(-),  
600(10), 744(10), 775(00), 782(00), 783(00), 794(10),  
875(10), 1085(00), 1126(10), 1244(10), 1250(00)

Bentonite: 1130(IP)

Coal Fires: 703(50)

Coking: 1169(20)

Dating Methods: 1130(IP), 1131(IP)

Depositional Environment: 1130(IP)

Development Potential: 482(10), 553(20)

General: 321(1890), 344(20), 359(00), 478(10), 480(10), 490(1890),  
491(1890), 546(20), 552(-), 599(00), 727(1890),  
728(1890), 819(1890), 1048(10), 1250(00)

Geology: 338(00), 471(40), 529(1890), 553(20), 703(50), 775(00),  
794(10), 875(10), 1054(1890), 1085(00), 1086(00),  
1105(1880), 1334(60)

History: 150(60), 290(70), 600(10), 553(20), 858(80)

Leases: 514(20)

Marketing - Domestic: 1169(20)

Mining: 290(70), 329(10), 553(20), 603(10), 694(00), 794(10),  
801(60), 859(00), 985(IP)

Overview: 202(40-50)

Paleobotany: 1130(IP)

Paleontology: 1086(00)

Petrography: 1131(70)

Production: 794(10), 985(IP)

Rank: 549(20)

Reserves: 482(10)

Stratigraphy: 255(00), 794(10), 875(10), 1086(00)

Structure: 338(00), 794(10), 875(10), 1086(00), 1169(20)

Tonsteins: 1130(IP)

Utilization: 1169(20)

Volcanic Ash Partings: 1131(70)



KAHILTNA VALLEY (SC)  
General: 271(60)  
Mining: 825(10)  
Structure: 825(10)

KAHKATAK CREEK (AR)  
Drilling: 1309(60)  
Equipment: 1309(60)  
Stratigraphy: 921(80)

KALGIN ISLAND (SC)  
General: 13(70)

KALLARICHUK RIVER (NW)  
Analysis: 493(80), 1038(10)  
General: 585(40)  
Geology: 493(80), 1038(10)

KALTAG (I)  
Analysis: 471(40)  
General: 984(70), 985(IP)  
Geology: 471(40)  
Rank: 813(70)

KALUYAK POINT  
General: 1055(00)

KANALKU BAY (SE)  
General: 1314(00)

KANAYUT RIVER (AR)  
Analysis: 270(60), 517(60)  
Geology: 517(60)  
Structure: 517(60)

KANEKTOK RIVER (SW)  
General: 763(10)

KANIKAGLUK BAY  
Analysis: 600(10)  
History: 600(10)

KANTISHNA DISTRICT (I)  
General: 393(20), 396(10), 1039(20)  
Geology: 400(10), 406(20), 899(00)  
Structure: 899(00)

## KAOLAK RIVER (AR)

Analysis: 270(60)

Cores: 450(50)

Stratigraphy: 450(50)

## KAPALOAK CREEK (AR)

Analysis: 1110(60)

Geology: 1110(60)

## KASAAN BAY (SE)

General: 279(60)

Geology: 338(00)

Rank: 813(70)

## KASHWITNA (SC)

General: 809(70), 869(00)

## KASILOF RIVER (SC)

General: 1105(1880), 622(50)

Geology: 794(10)

Structure: 794(10)

## KALTAG FORMATION

Development Potential: 582(80)

## KATALLA (SC)

Analysis: 470(40), 778(00), 1084(00)

Claims: 556(10), 687(10)

Development Potential: 578(10), 634(00)

General: 548(10), 203(20), 262(10)

Geology: 471(40), 512(10), 567(70), 714(10), 719(10), 778(00),  
1084(00), 1326(10)

History: 638(70), 711(10)

Mining: 554(10), 638(70), 719(10), 739(10)

Reserves: 634(00), 687(10), 711(10)

Structure: 512(10), 556(10)

## KATALLA ALASKA ANTHRACITE COAL COMPANY (SC)

Coal Survey Plats: 1168(00)

General: 422(10), 530(10), 683(10), 1093(10), 1232(10)

Mining: 1046(10)

## KATMAI BAY (SW)

General: 490(1890), 1085(00)

Geology: 819 (1890)

## KAYAK ISLAND (SC)

Analysis: 1084(00), 1244(10)  
 Character: 325(00)  
 Exploration: 323(00)  
 Geology: 338(00), 1084(00)  
 Mining: 534(00), 694(00)

## KAYAK RECORDING DISTRICT

General: 676(10), 677(10), 678(10), 679(10), 680(10), 681(10),  
 682(10), 683(10), 684(10), 752(10), 753(10), 754(10),  
 755(10), 756(10), 757(10), 758(10), 911(10), 912(10),  
 1061(10), 1062(10), 1088(10), 1168(00)

## KEKU STRAITS (SE)

General: 1342(00)

## KELLY BED

Analysis: 415(20)  
 Geology: 781(10)  
 Stratigraphy: 781(10)  
 Structure: 781(10)

## KENAI COAL FIELD (SC)

Analysis: 3(80), 12(70), 269(60), 281(60), 294(70), 329(10),  
 377(80), 659(70), 794(10), 799(10), 920(60), 926(IP),  
 930(80), 959(60), 1085(00), 1151(50), 1285(80)  
 Bentonites: 1130(IP)  
 Character: 324(00), 925(80), 926(IP)  
 Claims: 1168(00)  
 Dating Methods: 856(70)  
 Depositional Environment: 1130(70)  
 Development: 642(50), 707(70)  
 Development Potential: 293(70)  
 Drilling: 306(70)  
 Economics: 535(70)  
 Environmental Impact: 1235(80)  
 General: 3(80), 6(70), 11(70), 13(70), 277(60), 285(50), 302(40),  
 316(70), 322(00), 323(00), 367(60), 394(40), 458(70),  
 459(70), 469(70), 490(1890), 524(70), 587(70), 641(50),  
 669(50), 726(1880), 727(1890), 804(70), 805(IP),  
 813(70), 836(00), 845(20), 836(00), 875(10), 858(80),  
 917(80), 985(IP), 1090(70), 1296(60)  
 Geologic Age Dating: 856(70)  
 Geology: 215(-), 268(40), 283(50), 294(70), 327(80), 329(10),  
 345(00), 354(10), 528(1890), 529(1890), 585(40),  
 794(10), 925(80), 930(80), 1085(00), 1125(40), 1334(00)

## KENAI COAL FIELD contd.

History: 290(70), 603(10), 858(80), 859(00), 904(60), 925(80),  
 1151(50)  
 Hydrogenation Potential: 1151(50)  
 Land Status: 504(70)  
 Location: 319(1890), 671(70)  
 Map: 215(-), 222(-), 274(40), 1254(50)  
 Marketing Potential: 252(60)  
 Mining: 176(1860), 327(80), 354(10), 603(10), 666(50), 667(50),  
 668(50), 1066(20), 1199(70), 1323(60)  
 Mining Costs: 642(50), 1235(80)  
 Outlook: 293(70)  
 Overview: 808(70)  
 Paleobotany: 1130(IP), 1147(80)  
 Palynology: 807(IP)  
 Permits: 228(10-20), 641(50)  
 Petrography: 1264(60)  
 Petrology: 930(80)  
 Production: 228(10-20), 713(60), 935(60), 1235(80)  
 Rank: 269(60), 441(10), 813(70), 1301(70)  
 Reserves: 11(70), 293(70), 441(10), 534(00), 535(70), 671(70),  
 694(00), 813(70), 935(-), 987(IP), 1235(80), 1264(00)  
 Stratigraphy: 794(10), 1127(70), 1128(70)  
 Structure: 377(80), 659(70), 794(10), 959(60)  
 Tonsteins: 1130(IP)  
 Transportation: 1082(10), 1235(80)  
 Volcanic Ash Partings: 1127(70), 1128(70), 1147(80), 1148(70)  
 Washability: 925(80), 926(IP)

## KENAI FORMATION (SC)

Analysis: 3(80)  
 Character: 3(80)  
 General: 3(80), 6(70), 11(70), 394(40), 1296(60)  
 Geology: 283(50), 354(10), 528(1890), 529(1890)  
 Mining: 354(10)  
 Reserves: 11(70)  
 Trace Elements: 3(80)

## KENNICOTT VALLEY (I)

General: 844(1910)

## KETCHIKAN (SE)

Geology: 1314(00)

## KETIK RIVER (AR)

Analysis: 270(60)

- KIANA OUTCROP (NW)  
Analysis: 470(40)  
Geology: 471(40)
- KIANA VILLAGE (NW)  
Analysis: 12(70), 1007(30), 1166(40)  
General: 985(IP), 1027(30)
- KIBBY and EDEN  
General: 155(50)  
Mining: 667(50)
- KIGALIK RIVER (AR)  
Analysis: 270(60), 1005(50)  
General: 1044(30)  
Geology: 270(60)  
Structure: 270(60)
- KIKIAKRORAK RIVER (AR)  
Analysis: 270(60)  
Geology: 270(60)  
Structure: 270(60)
- KILIKTAGOT CREEK (AR)  
Analysis: 1110(60)  
Geology: 1110(60)
- KILIUDA BAY (SW)  
General: 761(10)  
Geology: 784(10)
- KILLIK RIVER (AR)  
Analysis: 2(60), 470(40), 517(60), 1044(30)  
General: 316(20), 1038(10), 1152(40)  
Geology: 270(60), 418(60), 471(40), 517(60), 710(70), 1044(30)  
Stratigraphy: 270(60), 418(60), 517(60), 1044(30)  
Structure: 270(60), 1044(30)
- KILLISNOO (SE)  
Analysis: 338(00)  
General: 727(1890), 1106(1880), 1107(1880)  
History: 638(70)  
Locations: 1108(80)  
Mining: 638(70)

KINGS RIVER (SC)  
 Analysis: 470(40), 476(10), 478(10), 571(10), 744(10), 790(00),  
 791(00), 795(10), 869(00), 870(00), 1314(30)  
 Character: 791(00)  
 Development: 309(20)  
 Development Potential: 578(10)  
 General: 415(20), 546(20), 608(00), 724(10), 789(10), 832(20),  
 949(20)  
 Geology: 471(40), 476(10), 478(10), 481(10), 560(10), 656(20),  
 781(00), 795(10), 870(00)  
 Mining: 795(10)  
 Overview: 607(00)  
 Rank: 389(10)  
 Stratigraphy: 790(00), 791(00), 795(10), 869(00), 993(-)  
 Structure: 389(10), 795(10), 870(00), 993(-)

KIRDS CREEK COAL COMPANY (SC)  
 Analysis: 1303(60)  
 Geology: 1303(60)  
 Reserves: 1303(60)

KIRSOPP SLOPE (SC)  
 General: 290(70)  
 Geology: 1086(00)  
 Stratigraphy: 1086(00)  
 Structure: 1086(00)

KISKA (SW)  
 General: 490(1890)

KIWALIK BASIN (NW)  
 Analysis: 493(80)  
 Geology: 493(80)  
 Reserves: 492(80)

KLONDIKE RIVER (I)  
 Geology: 446(00)  
 Structure: 446(00)

KNIFEBLADE RIDGE AREA (AR)  
 Drilling: 967(50)

KNIK ARM (SC)  
 Exploration: 1103(10)  
 General: 13(70), 394(40)  
 Reserves: 509(70)

## KNOB CREEK (SC)

Closure: 980(50)  
 Development Potential: 582(80)  
 General: 284(50)  
 Map (geol.): 275(60)  
 Marketing Potential: 582(80)

## KNOB CREEK COAL COMPANY

Drilling: 705(50)  
 Geology: 1303(60)

## KOBUK RIVER (NW)

Analysis: 12(70), 74(20), 269(60), 294(70), 329(10), 413(20),  
 493(80), 585(40), 1044(30)  
 General: 195(40), 277(60), 294(70), 546(20), 777(20), 956(10),  
 985(IP), 1162(50), 1250(00)  
 Geology: 329(10), 493(80), 567(70), 585(40), 604(60), 1044(30),  
 1150(50), 1189(70)  
 Mining: 356(20), 413(20), 801(60), 1027(30), 1043(10), 1044(30),  
 Overview: 984(70)  
 Production: 1027(30)  
 Rank: 269(60), 441(10), 813(70)  
 Reserves: 492(1890), 853(70), 987(IP)

## KODIAK ISLAND (SC)

Analysis: 338(00), 478(10), 782(00), 1226(10), 1244(10)  
 General: 13(70), 339(00), 359(00), 490(1890), 491(1890), 813(70)  
 Geology: 338(00), 604(60), 761(10), 784(10), 819(1890), 1085(00)  
 Mining: 739(10), 801(60)  
 Rank: 441(10)  
 Stratigraphy: 255(00)

## KOGOLUKTUK RIVER (NW)

Analysis: 493(80), 631(10)  
 General: 813(70), 1038(10)  
 Geology: 493(80)

## KOGOSUKRUK RIVER (AR)

Analysis: 270(60)  
 Geology: 270(60)  
 Structure: 270(60)

## KOKOLIK RIVER (AR)

Analysis: 269(60), 270(60), 388(70), 419(60), 493(80), 637(60),  
 1005(50), 1121(60), 1235(80)  
 Character: 595(30)  
 Coking Potential: 1121(60), 1307(60), 1309(60)  
 Drilling: 338(70), 1309(60)

## KOKOLIK RIVER contd.

Environmental Impact: 1235(80)  
 General: 1044(30)  
 Geology: 384(70), 386(70), 388(70), 419(60), 493(80), 710(70)  
 Location: 384(70), 388(70)  
 Mining Cost: 1235(80)  
 Production: 1235(80)  
 Rank: 269(60), 595(30), 1309(60)  
 Reserves: 384(70), 424(70), 710(70), 1235(80), 1333(70)  
 Structure: 269(60), 419(60)  
 Transportation: 1235(80)

## KOLMAKOF

General: 338(00)

## KOOTZNOHOO INLET (SE)

Analysis: 269(60), 338(00), 585(40), 600(10)  
 Development: 269(60), 1024(30), 1341(00)  
 Exploration: 1340(00)  
 General: 277(60), 362(20), 490(1890), 985(IP), 1025(30),  
 1048(10), 1150(50)  
 Geology: 338(00), 585(40), 737(60)  
 History: 600(10), 858(80)  
 Mining: 816(1870), 859(00)  
 Rank: 269(60), 813(70)  
 Reserves: 813(70)

## KOTZEBUE (NW)

Economics: 466(IP)  
 General: 13(70)  
 Power Generation: 466(IP)

## KOUGAROK

General: 195(40)

## KOYUK RIVER (NW)

Analysis: 493(80), 1042(10)  
 General: 195(40), 269(60), 412(20), 585(40), 631(10), 633(60),  
 813(70), 1019(00)  
 Geology: 493(80), 1042(10)  
 History: 858(80)  
 Mining: 357(20), 1066(20)  
 Reserves: 492(80)

## KOYUKUK RIVER (SC)

Analysis: 339(00), 446(00), 447(00), 478(10), 631(10), 775(00),  
 975(00), 999(00), 1044(30), 1224(10), 1226(10),  
 1244(10)



Character: 339(00)  
 General: 294(70), 338(00), 342(1890), 359(00), 585(40), 984(70),  
 985(IP), 1250(00)  
 Geology: 338(00), 345(00), 447(00), 585(40), 775(00)  
 Rank: 813(70)  
 Reserve: 987(IP)

KUGRUA INLET (AR)  
 Analysis: 2(60), 1235(80)  
 Environmental Impact: 1235(80)  
 Geology: 710(70)  
 Mining Costs: 1235(80)  
 Reserves: 1235(80)  
 Transportation: 1235(80)

KUGRUA RIVER (AR)  
 Analysis: 270(60), 637(60)  
 Geology: 270(60)  
 Reserves: 424(70)  
 Structure: 270(60)

KUGRUK MINE (NW)  
 Analysis: 470(40), 962(70)  
 Geology: 471(40)  
 Mining: 471(40), 985(IP)  
 Petrography: 962(70)

KUGRUK RIVER (NW)  
 Analysis: 195(40), 412(20), 413(20), 493(80), 646(00), 1124(40)  
 Dredging: 1066(20)  
 General: 269(60), 631(10), 777(20), 956(10), 1021(20), 1029(30)  
 Geology: 467(70), 493(80), 645(10), 646(00), 839(00)  
 History: 858(80)  
 Mining: 310(20), 335(20), 356(20), 412(20), 571(10), 633(20),  
 1027(30), 1124(40)  
 Rank: 441(10), 813(70)  
 Reserves: 813(70), 839(00)  
 Stratigraphy: 645(10)  
 Structure: 646(00)

KUIU ISLAND (SE)  
 General: 490(1890), 491(1890), 726(1880), 727(1890), 985(IP),  
 1109(1880)  
 Geology: 338(00)

KUK (AR)  
 Analysis: 269(60), 270(60), 470(40), 637(60), 903(70), 991(40),  
 1005(50), 1006(40), 1124(40), 1235(80)

## KUK contd.

Character: 925(80)  
 Development: 1030(30)  
 Environmental Impact: 1235(80)  
 Exploration: 991(40)  
 General: 338(00), 917(80), 1029(30), 1031(30), 1032(30), 1034(30),  
 1035(40)  
 Geology: 270(60), 386(IP), 471(40), 710(70)  
 History: 858(80)  
 Marketing: 1028(30)  
 Mining: 1022(20), 1027(30), 1028(30), 1029(30), 1124(40)  
 Mining Costs: 1235(80)  
 Paleobotany: 513(50)  
 Palynology: 513(50)  
 Petrography: 513(50)  
 Production: 1027(30), 1028(30), 1030(30), 1235(80)  
 Reserves: 424(70), 710(70), 1235(80)  
 Structure: 269(60), 270(60)  
 Transportation: 1235(80)  
 Washability: 925(80)

## KUKPOWRUK (AR)

Analysis: 269(60), 270(60), 344(20), 387(60), 388(70), 419(60),  
 470(40), 585(40), 637(60), 743(50), 868(20), 959(60),  
 962(70), 1044(30), 1124(40), 1235(80), 1309(60),  
 1312(60)  
 Carbonization: 734(60), 1312(60)  
 Character: 918(70)  
 Climatic Conditions: 1312(60)  
 Coking: 338(70), 734(60), 918(70), 1121(60), 1302(60), 1307(60),  
 1309(60), 1312(60)  
 Drilling: 338(70), 1121(60), 1302(60), 1309(60)  
 Environmental Impact: 1235(80)  
 Equipment: 1309(60), 1312(60)  
 General: 295(70), 312(20), 659(70), 1021(20), 1152(40)  
 Geology: 13(70), 270(60), 344(20), 384(70), 386(IP), 388(70),  
 419(60), 471(40), 585(40), 710(70), 731(IP), 917(80),  
 1040(20), 1044(30)  
 Location: 384(70), 388(70)  
 Marketing Potential: 252(60), 731(IP)  
 Mining: 731(IP), 1124(40)  
 Mining Costs: 1235(80)  
 Petrography: 962(70), 1264(60)  
 Production: 1235(80)  
 Rank: 269(60), 1312(60)  
 Reserves: 384(70), 387(60), 424(70), 710(70), 743(50), 1235(80),  
 1264(60), 1302(60), 1333(70)  
 Stratigraphy: 743(50), 868(20), 1124(40), 1309(60)

## KUKPOWRUK contd.

Structure: 270(60), 731(IP), 868(20), 1302(60), 1307(60),  
1040(20), 1044(30)

Transportation: 1235(80), 1312(60)

Washability: 920(60)

Weathering: 1312(60)

## KUKPUK RIVER (AR)

Analysis: 15(70)

Geology: 15(70)

Rank: 15(70)

Washability: 15(70)

## KUPREANOF ISLAND (SE)

General: 362(20), 469(70), 885(IP), 1090(10)

Geology: 338(00), 1343(00)

Rank: 441(10)

## KUPUK RIVER

Geology: 445(00), 448(00), 1110(60)

## KURKPAK (I)

Distribution: 319(1890)

## KURUPA RIVER (AR)

Analysis: 270(60)

## KUSHTAKA FORMATION (SC)

Analysis: 585(40), 780(00)

Geology: 512(10), 585(40), 780(00), 986(70)

Structure: 512(10)

## KUSKOKWIM RIVER BASIN

Analysis: 12(70), 294(70), 329(10), 470(40)

General: 269(60), 294(70), 258(10), 394(40), 984(70), 1250(00)

Geology: 329(10), 338(00), 406(20), 471(20), 672(20), 673(20),  
1014(70), 1016(IP), 1037(10), 1039(20)

Rank: 441(10)

Reserves: 441(10)

Structure: 1014(70), 1016(IP), 1039(20)

Transportation: 1082(10)

## KUSTAKA LAKE AREA

Analysis: 470(40), 744(10), 778(00), 782(00), 1244(10)

General: 163(50), 280(50), 548(10), 787(00)

Geology: 461(-), 471(40), 475(10), 479(10), 484(10), 744(10),  
778(00), 782(00)

## KUSTATAN

History: 638(70)

Mining: 638(70)

## KUZITRIN BASIN (NW)

Analysis: 493(80)

Geology: 493(80)

Resources: 492(80)

## LA DUKE MINE (SC)

General: 333(10)

## LAKE and EXPORT COAL COMPANY

General: 831(20), 834(20), 1017(20)

## LAKE TOKUM DISTRICT

Geology: 475(10), 484(10), 548(10)

## LAND STATUS

General: 455(70), 457(70), 503(IP), 504(70), 647(70), 723(70),  
786(10), 797(70), 852(IP), 855(IP), 985(IP), 987(IP),  
994(IP), 1123(70), 1195(70), 1196(70), 1258(80)

Federal Land/BLM: 458(70)

State Coal Lands: 459(70)

## LeROY PROPERTY (SC)

Mining: 1068(20)

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Correspondence: 1245(10), 1246(10)

General: 19(50), 23(50), 31(60), 64(20), 139(20), 177(10), 178(10),  
179(10), 232(40), 262(10), 285(50), 302(40), 313(IP),  
350(10), 367(60), 422(10), 441(10), 457(70), 458(70),  
459(10), 479(10), 503(IP), 504(70), 514(20), 517(IP),  
530(10), 568(10), 569(10), 618(40), 619(40), 634(00),  
647(70), 648(50), 688(10), 709(10), 723(70), 786(10),  
850(10), 877(20), 879(20), 881(30), 882(30), 883(30),  
946(80), 947(20), 948(20), 984(70), 985(IP), 992(70),  
1091(10), 1092(10), 1222(10), 1224(10), 1226(10),  
1227(10), 1229(10), 1233(10), 1238(10), 1240(00),  
1258(80), 1314(40)

History: 260(40), 576(10)

Issued: 228(10-20), 640(50), 641(50), 1048(10), 1063(50),  
1064(50), 1068(20), 1071(20), 1072(20)

Lease Report: 90(40)

Map: 1242(10)

Overview: 1258(80)

Reclamation: 463(70)

SC: 185(10), 186(10), 290(70), 296(80), 389(10), 415(20),  
420(10), 473(-), 502(-), 523(10), 719(10), 721(IP),

## LEASES/PERMITS - SC contd.

887(70), 888(70), 889(IP), 1047(10), 1071(20), 1142(30),  
1241(10)

Terminated: 640(50)

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Maps, ext.: 184(10-40)

Mining: 186(10)

## LEASING UNIT NO. 10 &amp; 11

Chickaloon Coal Company: 186(10)

Mining Potential: 186(10)

## LEASING UNIT NO. 12

General: 186(10)

## LEASING UNIT NO. 14

General: 186(10)

## LEASING UNIT NO. 20

General: 186(10)

## LEASING UNIT No. 28

Maps, (ext.): 217(-)

Outcrops: 1176(40)

## LEEFER CREEK

Analysis: 470(40), 473(-), 744(10), 923(60)

Geology: 471(40)

Washability: 923(60)

## LEGISLATION AFFECTING COAL MINING

See also LEASES/PERMITS

General: 28(60), 177(10), 199(10), 262(10), 264(00), 300(IP),  
313(IP), 322(00), 325(00), 329(10), 331(10), 334(20),  
415(20), 420(10), 422(10), 426(10), 427(10), 441(10),  
456(70), 474(70), 478(10), 503(IP), 504(70), 517(IP),  
523(10), 530(10), 576(10), 597(70), 611(30), 616(40),  
617(40), 618(40), 619(40), 620(40), 621(50), 622(50),  
627(70), 628(00), 634(00), 639(50), 640(50), 642(50),  
652(70), 660(00), 661(00), 662(00), 663(00), 687(10),  
688(10), 707(10), 708(10), 709(10), 714(10), 719(10),  
723(70), 739(10), 773(70), 774(40), 797(70), 804(70),  
834(20), 855(IP), 858(80), 872(10), 877(20), 879(20),  
881(30), 882(30), 883(30), 906(IP), 949(20), 952(10),  
953(70), 954(70), 957(20), 984(70), 985(IP), 992(70),

## LEGISLATION AFFECTING COAL MINING - General contd.

1004(10), 1017(20), 1027(30), 1047(10), 1064(50),  
 1094(IP), 1105(1880), 1114(10), 1137(30), 1205(70),  
 1222(10), 1224(10), 1225(10), 1226(10), 1227(10),  
 1229(10), 1232(10), 1233(10), 1238(10), 1240(00),  
 1244(10), 1316(10), 1347(70)

Overview: 1258(80)

Reclamation: 849(IP)

## LETCHER GROUP

General: 643(10)

## LEWES RIVER

Analysis: 338(00)

Geology: 1054(1890)

## LEWIS PROSPECT

Analysis: 58(20)

## LEWIS TUNNEL (I)

General: 267(50), 285(50)

## LIGHTER CREEK

Geology: 338(00)

## LIGNITE CREEK (I)

Analysis: 2(60), 327(80), 395(20), 470(40), 573(20), 585(40),  
 959(60), 1169(20), 1292(50), 1295(50)

Character: 562(-), 924(70), 1295(50)

Coal Fires: 1209(50-70), 1295(50)

Development: 562(-), 1292(50)

Development Potential: 938(70)

Economics: 562(-)

Environmental Impact: 1235(80)

Exploration: 1292(50)

General: 8(70), 269(60), 285(50), 332(10), 494(20), 641(50),  
 985(IP), 1025(30),

Geology: 267(50), 327(80), 335(20), 390(10), 398(10), 400(10),  
 471(40), 505(IP), 562(-), 585(40), 704(40), 774(40),  
 899(00), 1282(70), 1296(60)

History: 858(80), 1295(50)

Hydrogenation: 1151(50)

Map (geol.): 1284(70)

Marketing Potential: 562(-)

## LIGNITE CREEK contd.

Mining: 357(20), 471(40), 505(IP), 562(-), 1295(50)  
 Mining Costs: 1235(80)  
 Permits: 641(50)  
 Photography: 562(-)  
 Production: 505(IP), 959(60)  
 Reserve: 725(80), 938(70), 1282(70), 1292(50)  
 Stratigraphy: 1169(20)  
 Structure: 267(50), 390(10), 505(IP), 585(40), 704(40), 899(00),  
 959(60), 1292(50)  
 Transportation: 1292(50), 1337(70)  
 Utilization: 562(-)  
 Washability: 924(70)

## LIGNITE CREEK FORMATION (I)

Map (geol.): 1284(70), 1285(70), 1287(70), 1289(70), 1290(70)

## LINDQUIST

Mining: 1068(20)

## LINGO PERMIT

Analysis: 58(20)

## LIQUIFICATION OF COAL

General: 11(70), 721(IP), 854(70), 888(70)

## LISBURNE - CORWIN COAL COMPANY

General: 850(10)

## LITTLE COAL CREEK (SC)

General: 1141(30)

## LITTLE GOLD CREEK (I)

Geology: 841(40)

## LITTLE GRAND CREEK

Stratigraphy: 656(20)

## LITTLE STONY CREEK (SC)

General: 500(70)

## LITTLE SUSITNA (SC)

Analysis: 269(60), 870(00)  
 General: 186(10), 476(10)  
 Geology: 287(50), 394(40), 870(00)  
 History: 193(10)  
 Mining: 777(20), 889(IP), 984(70), 985(IP)  
 Overview: 808(70), 984(70)

## LITTLE SUSITNA contd.

Production: 269(60), 956(10), 985(IP)  
Reserves: 889(IP), 987(IP)  
Stratigraphy: 287(50), 781(10)  
Structure: 287(50), 870(00)

## LITTLE TONZONA RIVER (SW)

Analysis: 896(70), 925(80), 930(80), 1015(70)  
Character: 925(80)  
General: 985(IP)  
Geology: 925(80), 930(80), 1016(IP)  
History: 925(80)  
Petrology: 930(80)  
Stratigraphy: 917(80), 930(80), 1015(70)  
Structure: 896(70), 917(80), 1015(70), 1016(IP),  
Washability: 925(80)

## LITUYA BAY (SE)

Analysis: 760(70)  
General: 362(20), 490(1890), 491(1890), 1018(30)  
Geology: 338(00), 760(70)  
Reserves: 534(00)

## LIZ - A SYNCLINE (AR)

Analysis: 12(70)

## LOCHWOOD HILLS (NW)

General: 813(70)  
Reserves: 1038(10)

## LONE CREEK (SC)

Geology: 910(80)  
Stratigraphy: 910(80)  
Structure: 910(80)

## LOST CREEK

General: 1201(60)

## LOST RIVER

Transportation: 1162(50)

## LOUDEN

Analysis: 582(80), 1041(10)  
Geology: 582(80)  
Stratigraphy: 1041(10)



## LYNN MINE

Analysis: 1067(20)  
 Mining: 357(20), 494(20), 495(20)  
 Production: 1067(20)

## MAITLAND BED

Analysis: 415(20), 573(20)  
 Geology: 416(20), 781(10)  
 Mining: 416(20), 781(10)  
 Production: 416(20)

## MAITLAND COAL GROUP

Analysis: 74(20)  
 General: 103(20-30), 1142(30)  
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## MAMMOUTH BED (I)

Geology: 774(40)

## MANGOAK RIVER (NW)

Analysis: 493(80)  
 Distribution: 893(70)  
 Geology: 493(80)  
 Reserves: 492(80)  
 Structure: 893(70)

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 Beluga Susitna Coal Field: 1268(70)  
 Bering River Coal Company: 563(20)  
 Bering River Field: 555(10), 629(10-50)  
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 Costello Creek: 213(40)  
 Diamond Strip Mine: 212(40)  
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 Gold Run Pass: 941(70)  
 Green-Doughton Claims: 555(10)  
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 Healy River: 1293(-)  
 Katalla Mine: 556(10)  
 Lease No. 28, Healy Quad.: 217(-)  
 Nenana Coal Field: 1268(70)  
 State Resources: 289(70), 469(70), 517(IP), 553(20)  
 Suntrana: 224(50), 1234(-)  
 Usibelli: 942(60), 943(60), 944(70), 945(-)  
 Western Arctic: 1268(70)

## MARGUERITE CREEK (I)

Analysis: 786(10)  
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## MARKETING POTENTIAL (SINCE 1950)

(See also DEVELOPMENT POTENTIAL and ECONOMIC POTENTIAL)

General: 357(70), 409(70), 486(70), 511(70), 520(IP), 656(70),  
 632(70), 692(70), 701(70), 706(IP), 721(IP), 742(IP),  
 798(70), 808(70), 845(IP), 854(70), 857(IP), 895(IP),  
 906(IP), 960(IP), 961(IP), 923(60), 961(IP), 976(IP),  
 979(70), 994(IP), 1083(70), 1235(80), 1258(80), 1336(IP)  
 AR: 252(60), 710(70), 731(IP), 833(70), 1140(70)  
 I: 580(30), 959(00), 979(70), 1011(80), 1026(30), 1270(IP),  
 1274(80)  
 SC: 252(60), 308(IP), 509(70), 545(70), 721(IP), 863(70), 887(70),  
 888(70), 902(IP), 923(60), 959(60), 960(IP), 979(70),  
 1058(70), 1059(70), 1104(IP)  
 Multiple Areas: 301(IP), 582(80), 650(60), 659(70), 804(70),  
 946(80), 984(70), 985(IP), 1123(70)

## MARKETING POTENTIAL - DOMESTIC (SINCE 1950)

(see also DEVELOPMENT POTENTIAL and ECONOMIC POTENTIAL)

California: 521(70), 974(70), 975(70), 1346(70)  
 General: 11(70), 13(70), 252(60), 424(70), 441(70), 750(70),  
 948(70)

## MARKETING POTENTIAL - FOREIGN (SINCE 1950)

(See also DEVELOPMENT POTENTIAL and ECONOMIC POTENTIAL)

General: 11(70), 13(70), 252(60), 295(70), 424(70), 706(IP),  
 713(60), 749(80), 806(80), 854(70), 895(IP), 902(IP),  
 946(80), 959(60)  
 Pacific Rim: 73(50), 168(50), 252(60), 567(70), 746(60),  
 1149(60), 1339(80)

## MARSHALL

General: 588(10), 632(10)

## MARTIN BED

Analysis: 415(20), 924(70)  
 Geology: 416(20), 781(10)  
 Mining: 416(20), 781(10)  
 Production: 416(20)  
 Structure: 415(20), 416(20), 781(10)  
 Washability: 924(70)

## MARYLAND CONSOLIDATED COAL COMPANY

Coal Survey Plat: 1168(00)  
Mining: 1046(10)

## MATANUSKA CENTER MINE

Analysis: 1303(60)  
Geology: 1303(60)  
Reserves: 1303(60)

## MATANUSKA COAL COMPANY

Bankruptcy: 130(20-30)  
Closure: 181(40)  
Contracts: 130(20-30)  
Financial Statement: 130(20-30)  
General: 42(60), 1113(10)  
History: 130(20-30), 193(10)

## MATANUSKA COAL FIELD (SC)

## Analysis:

1890-1909: 339(00), 608(00), 609(00), 610(00), 655(10), 775(00),  
782(00), 783(00), 869(00), 879(00), 1259(00)  
1910-1929: 140(20-30), 354(10), 415(20), 441(10), 476(10),  
553(20), 571(10), 572(10), 655(10), 795(10), 796(10),  
952(10), 1048(10), 1071(20), 1126(10), 1128(10),  
1244(10)  
1930-1949: 191(40), 470(40), 585(40), 1006(40)  
1950-1969: 236(50), 237(50), 238(50), 239(50), 240(50), 241(60),  
242(60), 243(60), 244(60), 245(60), 246(60), 247(60),  
248(60), 249(60), 250(60), 281(60), 284(50), 588(60),  
598(60), 625(60), 626(60), 920(60), 959(60), 1005(50),  
1297(60), 1299(60), 1300(60), 1303(60)  
1970: 12(70), 294(70), 460(00), 587(70), 654(70), 813(70)  
1980: 327(80), 930(80), 1235(80)  
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Briquetting: 66(30), 549(20)  
Carbonization: 1066(40)  
Character: 339(00), 610(00), 790(60), 796(10), 924(70), 918(70)  
Claims: 610(00), 688(10)  
Coal Monopoly: 422(10)  
Coking Coal: 333(10), 553(20), 609(00), 610(00), 625(60), 626(60),  
790(00), 918(70)  
Development: 178(10), 284(50), 341(20), 415(20), 416(20), 531(10),  
549(20), 566(10), 612(40), 613(40), 614(40), 620(50),  
621(40), 622(00), 639(50), 640(50), 642(50), 664(10),  
670(10), 957(20), 1071(20), 1089(10)

## MATANUSKA COAL FIELD contd.

Development Potential: 293(70), 455(70), 560(10), 578(10), 580(30),  
582(80), 634(00), 938(70), 952(10), 979(70),  
1123(70), 1205(70)

Drilling: 1185(-)

Economics: 535(70)

Environmental Impact: 1235(80)

Equipment: 178(10)

Exploration: 178(10), 284(50), 309(20), 499(60), 566(10),  
620(40), 621(40), 670(10), 876(20), 1091(10)

General: 4(20), 13(70), 175(30), 186(10), 190(10), 197(50),  
201(10), 225(20), 262(10), 277(60), 285(50), 290(70),  
295(70), 302(20), 312(20), 326(00), 332(10), 344(20),  
346(60), 348(00), 349(00), 359(00), 407(10), 410(70),  
420(10), 469(70), 494(20), 512(10), 514(20), 524(70),  
546(20), 552(-), 608(00), 612(40), 618(40), 621(50),  
622(50), 623(50), 624(50), 641(50), 663(00), 804(70),  
805(IP), 807(IP), 819(1890), 832(00), 836(00), 845(20),  
858(80), 875(10), 877(20), 878(20), 879(20), 880(20),  
881(30), 882(30), 883(30), 955(10), 1017(20), 1018(20),  
1021(20), 1024(30), 1025(30), 1026(30), 1031(30),  
1036(40), 1063(50), 1093(10), 1101(20), 1255(10),  
1250(00)

Geology: 260(40), 262(40), 282(40), 284(50), 287(50), 327(80),  
329(10), 337(10), 338(00), 345(00), 354(10), 358(10),  
393(20), 394(40), 395(20), 397(30), 402(30), 408(30),  
414(20), 416(20), 471(40), 458(70), 459(70), 476(10),  
478(10), 481(10), 498(50), 553(20), 560(10), 576(10),  
580(30), 585(40), 587(70), 609(00), 610(00), 656(20),  
704(40), 775(00), 781(10), 790(00), 795(10), 800(50),  
846(10), 870(00), 924(70), 930(80), 947(70), 1048(10),  
1125(40), 1142(30), 1294(70), 1303(60), 1334(80)

Guidebook: 44(60)

History: 193(10), 457(70), 460(70), 553(20), 580(30), 638(70),  
858(80), 904(60), 1260(10), 1303(60)

Land Status: 504(70)

Leases/Permits: 228(10-20), 502(-), 514(20), 546(20), 641(50),  
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Locations: 671(70), 1185(-)

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Maps, ext.: 184(10-40)

Marketing: 576(10), 609(00), 610(00)

Marketing Potential: 252(60), 293(70), 582(80)

## MATANUSKA COAL FIELD contd.

Mining: 284(50), 327(80), 330(10), 393(20), 402(30), 415(20),  
 416(20), 458(70), 553(20), 620(40), 638(70), 666(50),  
 667(50), 668(50), 713(60), 739(10), 746(60), 771(10),  
 777(20), 781(10), 795(10), 801(60), 825(10), 889(IP),  
 980(50), 985(IP), 1027(30), 1029(30), 1034(30), 1046(10),  
 1048(10), 1063(50), 1064(50), 1068(20), 1078(40),  
 1125(40), 1134(30), 1135(30), 1136(30), 1137(30),  
 1169(70), 1199(70), 1303(60)

Mining Conditions: 642(50), 790(00), 795(10)

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Paleontology: 795(10)

Petrology: 930(80)

Petrography: 625(60), 626(60), 1262(60), 1264(60)

Photographs: 610(00), 656(20)

Preparation: 460(70), 588(60)

Production: 179(10), 228(10-20), 260(40), 310(20), 416(20),  
 425(70), 458(70), 459(70), 566(10), 611(30), 649(60),  
 655(10), 713(60), 746(60), 770(10), 777(20), 904(60),  
 956(10), 959(60), 985(IP), 1027(30), 1035(40),  
 1067(20), 1071(20), 1090(10), 1128(10), 1150(70),  
 1205(70), 1206(70), 1235(80)

Rank: 341(20), 389(10), 441(20), 782(00), 813(70), 948(20),  
 904(60), 1169(70), 1226(10), 1228(10), 1301(70)

Reserves: 11(70), 282(40), 293(70), 358(10), 441(10), 455(70),  
 460(70), 504(70), 535(70), 634(00), 639(50), 649(60),  
 655(10), 664(10), 670(10), 671(70), 694(00), 782(00),  
 796(10), 813(70), 889(IP), 935(-), 938(70), 952(10),  
 957(20), 987(IP), 1035(40), 1071(20), 1150(50),  
 1169(70), 1205(70), 1235(80), 1264(60), 1303(60)

Stream Tests: 140(20-30)

Stratigraphy: 415(20), 580(30), 608(00), 656(20), 789(10),  
 790(00), 795(10), 796(10), 894(40), 930(80),  
 948(20), 1150(50), 1255(-)

Structure: 287(50), 389(10), 415(20), 580(30), 585(40), 609(00),  
 610(00), 656(20), 659(70), 704(40), 781(10), 789(10),  
 795(10), 870(00), 894(40), 948(20), 959(60), 1048(10),  
 1142(30)

Sulfur Content: 1296(60)

Transportation: 178(10), 566(10), 576(10), 608(00), 662(00),  
 670(10), 777(20), 790(00), 1082(10), 1235(80)

Utilization: 612(40), 613(40), 614(40)

Washability: 460(70), 588(60), 590(60), 625(60), 924(70)

## MATANUSKA CONSOLIDATED MINING and DEVELOPMENT COMPANY

Coal Survey Plat: 1168(00)

Mining: 1046(10)

## MAY CREEK (AR)

General: 517(60)

## MAYBE CREEK (AR)

General: 936(50)

## McCARTHY'S MARSH (NW)

Analysis: 493(80)

Geology: 493(80)

## McCAULEY PROSPECT:

Analysis: 573(20)

Development Potential: 582(80)

## McCUSHEY'S MINE

Analysis: 338(00)

General: 490(1890)

Geology: 338(00)

## McDONALD PROPERTY

Analysis: 12(70), 470(40)

Claims: 914(10)

Development Potential: 578(10)

Explosions: 554(10)

General: 333(10)

Geology: 471(40), 484(10)

History: 638(70)

Mining: 280(50), 548(10), 638(70), 984(70)

Production: 985(IP)

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Mining: 477(10), 478(10)

## McLENNON FREE USE PERMIT

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Closure: 186(10)

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Analysis: 1081(20)  
 General: 335(20), 1066(20)  
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## MCNEIL CANYON (SC)

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 General: 290(70), 490(1890)  
 Geology: 338(00), 794(10), 1085(00), 1086(00)  
 Mining: 283(50), 794(10)  
 Stratigraphy: 1086(00)  
 Structure: 338(00), 794(10), 1086(00)

## MEADE and MITCHELL SEAM (SE)

General: 490(1890)

## MEADE RIVER (AR)

Analysis: 2(60), 269(60), 270(60), 470(40), 522(40), 637(60),  
 925(80), 930(80), 991(40), 1175(40), 1235(80)  
 Barrow Coal Mine Project: 1152(40), (See also this subject heading)  
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 1159(50), 1160(50), 1161(50), 1164(50), 1165(50)  
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 1161(50), 1165(50), 1212(40)  
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 Fire Garage: 1165(50)  
 General: 151(50), 172(50), 903(70), 917(80), 958(50)  
 Geology: 270(60), 344(20), 386(IP), 471(40), 522(40), 605(-),  
 710(70), 930(80), 1175(40)  
 History: 638(70), 858(80)  
 Inventory: 1158(40)  
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 Production: 1155(40), 1156(40), 1157(40), 1158(40), 1159(50),  
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MINE CAMP (SC)  
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 Analysis: 254(10), 470(40), 586(40)  
 Character: 254(10), 586(40)  
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 767(1860), (1st Mining), 836(00), 1105(1880),  
 1106(1880), 1107(1880), 1108(1880), 1109(1880)  
 1910-1929: 334(20), 352(10), 412(20), 494(20), 781(10), 875(10),  
 1021(20), 1022(20), 1046(20), 1071(20), 1079(20)  
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## MINING - ANNUAL SUMMARY contd.

1930-1949: 90(40), 617(40), 881(30), 1023(30), 1024(30),  
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1950-1969: 622(50), 624(50), 666(50), 667(50), 668(50),  
 669(50), 713(60), 980(50), 1063(50), 1064(50),  
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1970: 7(70), 638(70), 750(70), 797(70), 804(70)

## MINING - REGIONAL (See also Specific Locations and Mines)

AR: 419(60), 605(IP), 620(40), 865(IP), 866(00), 898(70),  
 999(00), 1044(30), 1124(40), 1152(40), 1153(40), 1154(40),  
 1155(40), 1156(40), 1157(40), 1159(50), 1160(50), 1161(50),  
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 714(10), 716(50), 739(10), 776(10), 781(10), 791(00), 794(10),  
 795(10), 796(10), 800(50), 825(10), 831(20), 832(20), 875(10),  
 888(70), 947(20), 959(60), 1045(20), 1058(70), 1059(70),  
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Multiple Areas: 338(00), 356(20), 459(70), 469(70), 471(40),  
 478(10), 585(40), 600(10), 659(70), 666(50),  
 667(50), 668(50), 669(50), 694(00), 746(60),  
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I: 619(40), 786(10), 878(20), 953(20)

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 739(10), 780(00), 790(00), 795(00), 831(20), 832(20),  
 869(00), 875(20), 878(20), 910(80), 1017(20), 1146(60),  
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Multiple Areas: 587(70), 620(40), 624(50), 868(80), 877(20),  
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Geology: 338(00), 446(00), 447(00), 1054(1890)

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 Geology: 400(10), 774(40), 937(60), 939(30), 1221(50)  
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MOOSE CREEK BED (I)  
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MOOSE RANGE (SC)  
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MORROW  
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MT. ANN  
Analysis: 470(40), 572(10)  
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MT. BELUGA  
General: 1008(30)

MT. EIELSON (I)  
General: 939(30)

MT. HAMILTON  
Analysis: 470(40), 572(10), 744(10), 782(00), 1244(10)  
Geology: 471(40)  
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MT. MCKINLEY BITUMINOUS COAL CORPORATION  
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Correspondence: 62(20), 137(20)  
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Geology: 704(40), 580(30)  
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MT. MCKINLEY PARK  
Analysis: 470(40), 1125(40)  
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## MT. MCKINLEY PARK contd.

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## MT. MICHAELSON (AR)

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## MT. SHELDON

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## MT. SPURR REGION (SC)

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## MT. ST. ELIAS (SC)

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MURDER COVE (SE)  
Analysis: 470(40), 744(10)  
Development: 1340(00), 1342(00)  
Exploration: 1340(00)  
General: 269(60), 320(1890), 362(20), 727(1890)  
Geology: 471(40), 737(60), 1341(00), 1342(00)  
Rank: 813(70)

MURPHY-RAWSON MINE  
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MYSTIC CREEK  
General: 398(10)

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NAKOCLATILTEN DEPOSIT  
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General: 584(70)  
Geology: 582(80)

NAKOCINA RIVER (SC)  
General: 985(IP)

NANUSKUK RIVER  
Analysis: 270(60), 1005(50)  
General: 517(60), 891(60)  
Geology: 386(IP)

NAPAMRITE RIVER  
Geology: 672(20)

NAPOLEON CREEK (I)  
General: 1054(1890)

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447(00), 659(70), 775(00), 821(30), 1226(10),  
1244(10)

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General: 359(00), 443(00), 584(70), 585(40), 659(70), 858(80),  
985(IP), 1018(30)

Geology: 377(80), 446(00), 447(00), 775(00), 821(30)

History: 858(80)

Marketing Potential: 293(70)

Mining: 447(00), 821(30), 827(30)

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Reserves: 279(60), 293(70), 827(30), 1249(70)

Stratigraphy: 821(30)

Structure: 327(80), 446(00), 447(00)

## NAVAL ALASKAN COAL COMMISSION

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585(10), 670(10), 832(20), 947(20), 948(20), 949(20),  
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Development Potential: 1123(70)

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## NELCHINA VALLEY

(SC)

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Structure: 796(10)



## NELSON ISLAND (SW)

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 General: 269(60), 469(70), 984(70), 985(IP), 1090(10)  
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 249(60), 250(60), 598(60), 920(60), 959(60),  
 1005(50), 1151(50), 1291(50), 1295(50), 1297(60),  
 1300(60)  
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 1171(70), 1337(70)  
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 Development Potential: 293(70), 455(70), 580(30), 582(80),  
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 776(10), 804(70), 805(IP), 807(IP), 836(00), 877(20)  
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 459(70), 471(40), 494(20), 505(IP), 553(20), 580(30)  
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 985(IP), 1029(30), 1065(70), 1066(20), 1075(40), 1078(40)  
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## NESKUK LAGOON (NW)

Analysis: 595(30)  
Character: 595(30)

## NEVADA CREEK

Analysis: 470(40), 744(10), 782(00)  
Geology: 471(40)  
Stratigraphy: 782(00)  
Washability: 920(60)

## NEW BLACK DIAMOND COAL COMPANY

Analysis: 1010(30)  
Correspondence: 100(40)  
General: 232(40)  
Mining: 1031(30)  
Production: 100(40)

## NEW BLACK DIAMOND MINE

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Development: 1030(30)  
Development Potential: 582(80)  
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Geology: 471(40), 585(40)  
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Mining: 471(40), 1031(30), 1033(40)  
Ownership: 5(30)  
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## NIAK (AR)

Analysis: 448(00), 1110(60)  
Geology: 448(00), 1110(60)  
Mining: 985(IP)  
Reserves: 1249(70)  
Stratigraphy: 448(00)  
Structure: 448(00)

NIAKOGON TONGUE (AR)  
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NIKOLAI CREEK (SC)  
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NIKOLSHI (SW)  
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NINILCHIK  
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General: 13(70), 422(10), 1223(00)  
Power, general: (Econ) 446(IP)

NORTH AMERICAN TRADING and TRANSPORTATION COMPANY  
General: 321(1890)

NORTH PACIFIC MINING and TRANSPORTATION COMPANY (SC)  
General: 283(50), 875(10)

## NORTH SLOPE COAL MINE

General: 804(70)

## NORTHERN EXPLORATION and DEVELOPMENT COMPANY

General: 554(10)

## NORTHERN IMPROVEMENT COMPANY

Coal Survey Plat: 1168(00)

General: 422(10), 751(10), 1046(10)

## NORTHWESTERN ALASKA (See also Locations in the Area)

General: 750(70)

Petrology: 922(80)

Reserves: 1150(50)

## NORTHWESTERN COMMERCIAL COMPANY

General: 1224(10)

## NORTON SOUND (NW)

Analysis: 413(20), 493(80)

Distribution: 893(70)

General: 316(20), 491(90), 777(20), 1029(30), 1041(10)

Geology: 413(20), 493(80)

History: 858(80)

Rank: 813(70)

Structure: 413(20), 893(70)

## NOWITNA

General: 828(10), 829(30)

## NULATO (I)

Analysis: 327(80), 338(00), 417(60), 441(10), 446(00), 447(00),  
470(40), 582(80), 926(IP), 1042(10)

Character: 926(IP)

Development Potential: 634(00)

General: 394(70), 469(70), 491(1890), 584(70), 585(40), 804(70)  
985(IP)Geology: 327(80), 338(00), 417(60), 446(00), 447(00), 471(40),  
582(80), 1018(30), 1042(10), 1054(1890)

Mining: 466(IP), 859(00)

Power Generation Potential: 466(IP)

Rank: 441(10), 813(70)

Reserves: 634(00), 987(IP)

## NUNWAK ISLAND

General: 269(60), 338(00), 358(10), 441(10), 490(1890),  
984(70), 985(IP), 1055(00), 1090(10), 1307(60)

## NUTZOTIN RANGE

Geology: 391(10), 399(10)

## OBER CREEK

Washability: 920(60)

## O'BRIEN CREEK

Analysis: 796(10), 1244(10)  
General: 395(20)  
Geology: 656(20), 796(10), 993(-)  
Stratigraphy: 656(20), 796(10)  
Structure: 656(20), 796(10)

## OHIO CONSOLIDATED COMPANY

Coal Survey Plat: 1168(00)  
Mining: 1046(10)

## OLIVER LaDUKE and ASSOCIATES LEASE

Character: 186(10)

## OOLAMNAGAVIK RIVER (AR)

Analysis: 270(60)  
Geology: 270(60)  
Structure: 270(60)

## OREGON COAL CLAIM

General: 754(10)

## ORLOVA (SW)

General: 1085(00)

## OUMALIK (AR)

Drilling: 964(50)

## PACIFIC STEAM WHALING COMPANY

Mining: 448(00)

## PAK RIVER

Analysis: 493(80)  
Geology: 493(80)

## PALEOBOTANY

AR: 445(00), 448(00), 513(50), 517(60), 861(60), 968(50),  
 999(00), 1330(IP)  
 I: 354(10), 380(10), 393(20), 1296(20)  
 SC: 192(60), 794(10), 795(10), 818(00), 856(70), 979(1890),  
 1334(60)  
 SE: 737(60), 1115(00), 1343(00)  
 General: 513(50), 694(00), 807(IP), 1018(30)  
 Multiple Areas: 490(1890), 491(1890)

## PALEONTOLOGY

AR: 448(00), 517(60), 968(50)  
 L: 516(10)  
 SC: 394(40), 407(10), 794(10), 795(10), 856(70), 1086(00)  
 SW: 501(70)  
 Multiple Areas: 491(1890)

## PALISADES

Analysis: 447(00)  
 General: 338(00), 584(70)  
 Geology: 446(00), 447(00)  
 Stratigraphy: 446(00)  
 Structure: 447(00)

## PASS CREEK

Geology: 407(10)

## PAULOFF BAY

General: 255(00), 491(90)  
 Rank: 441(10)

## PEARL BAY (AR)

Analysis: 2(60), 470(40), 522(40), 990(40), 991(40), 1175(40)  
 Exploration: 991(40), 1175(40)  
 General: 1044(30)  
 Geology: 471(40), 522(40), 990(40), 1175(40)  
 Reserves: 991(40), 1174(40)  
 Structure: 1175(40)

## PERMAFROST

General: 731(IP), 750(70), 865(IP), 898(70), 987(IP), 1235(80),  
 1258(80)

## PERMITS, See LEASES/PERMITS

PERRY CREEK (NW)  
 Analysis: 493(80)  
 Geology: 493(80)

PETERS CREEK (I)  
 Analysis: 825(10)  
 General: 407(10), 410(70)  
 Hydrologic Reconnaissance: 1002(80)  
 Stratigraphy: 271(60)

PETERSON COAL COMPANY  
 General: 95(20)

PETERSON MINE  
 General: 494(20)  
 Mining: 495(20)

PETROGRAPHY  
 AR: 918(70), 921(80), 930(80), 1267(70)  
 I: 625(60), 1262(60), 1264(60)  
 SC: 625(60), 626(60), 918(70), 1131(70), 1262(60), 1264(60)  
 General: 513(50), 874(50), 1266(70)  
 Multiple Areas: 962(70), 1293(60)

Petrology  
 NW: 922(80)  
 Multiple Areas: 930(80)

PHILBRICK and FOSTER  
 Mining: 255(00)

PHILIP SMITH MOUNTAIN (AR)  
 General: 316(70)

PHOTOGRAPHS  
 General: 50(20), 610(00), 656(20), 700(00-10), 1012(20),  
 1069(30), 1086(00), 1119(70), 1152(40), 1175(40)

PICKART MINE (I)  
 Analysis: 417(60), 447(00), 582(80), 1041(10)  
 General: 584(70), 984(70)  
 Geology: 417(60), 446(00), 447(00), 582(80), 1041(10)  
 History: 638(70)  
 Mining: 447(00), 638(70), 859(00), 985(IP)  
 Structure: 446(00), 447(00), 1307(60)



## PICKETT MINE

General: 339(00)

## PINNACLE PASS (SE)

General: 977(1890)

Paleobotany: 977(1890)

## PIONEER COAL COMPANY

Analysis: 74(20)

## PIONEER COAL MINING COMPANY

General: 157(50)

Mine Map: 864(50)

## PIONEER MINE

Analysis: 2(60), 232(40), 236(50), 237(50), 822(30)

Development: 1030(30)

General: 21(50), 284(50), 668(50), 827(30)

Geology: 232(40)

History: 638(70)

Marketing: 1028(30), 1030(30)

Mining: 638(70), 661(50), 669(50), 859(00), 1025(30), 1026(30),  
1028(30), 1029(30), 1323(60)

## PITNEGEA RIVER AREA (AR)

Analysis: 270(60)

General: 1167(40)

Geology: 445(00)

## PITTACK COAL CLAIM

General: 678(10)

## PITTSBURG CONSOLIDATED COAL COMPANY (SC)

Claim: 601(10)

General: 422(10)

Mining: 1046(10)

## PLACER AMEX

Exploration: 732(70)

General: 293(70), 520(IP), 721(IP), 860(IP), 890(70)

Mining: 887(70), 888(70), 902(IP), 935(80)

## POINT CAMBELL (SC)

General: 791(00)

Mining: 354(10)

## POINT GARDINER (SE)

General: 859(00), 1342(00)

Geology: 338(00), 490(1890)

History: 858(80)

## POINT HOPE (AR)

Analysis: 12(70), 327(80), 493(80)

Character: 468(70)

Distribution: 637(60)

General: 469(70)

Geology: 327(80), 445(00), 493(80)

Mining: 327(80), 1167(40)

Reserves: 468(70), 492(80)

Stratigraphy: 327(80)

## POINT LAY (AR)

Analysis: 419(60), 493(80)

General: 492(80), 804(70), 1078(40)

Geology: 493(80)

Mining: 1124(40), 1166(40)

Reserves: 492(80)

## POINT MACKENZIE (SC)

Reserves: 509(70)

## POINT SULLIVAN

General: 490(1890)

Geology: 338(00)

## POINT VANCOUVER (SW)

General: 490(1890)

## POINT WORONZOF

General: 394(40)

## POKER FLAT (I)

Analysis: 924(70)

Washability: 924(70)

## POLYCHROME (I)

Analysis: 704(40)  
 General: 392(30)  
 Geology: 704(40)  
 Stratigraphy: 704(40)  
 Structure: 704(40)

## POORMAN CREEK (I)

Analysis: 823(30)  
 General: 584(70), 813(70), 828(10)  
 Geology: 823(30)  
 Mining: 823(30), 829(20)

## POPOVITCH CREEK (I)

Analysis: 786(10)  
 Geology: 786(10)  
 Structure: 786(10)

## PORT CAMDEN (SE)

General: 490(1890), 1342(00)  
 Geology: 338(00), 1343(00)

## PORT CHATHAM

General: 302(40), 362(20)  
 Mining: 859(00)

## PORT GRAHAM (SC)

Analysis: 12(70), 338(00), 441(10), 478(10), 571(10), 744(10),  
 775(00), 782(00), 1085(00), 1226(10), 1244(10)  
 General: 55(00), 290(70), 294(70), 302(40), 339(00), 354(10),  
 359(00), 422(10), 490(1890), 491(1890), 603(10),  
 726(1880), 777(20), 819(1890), 956(10), 984(70),  
 1109(1880)  
 Geology: 471(40), 775(00), 794(10), 1085(00), 1086(00), 1334(60)  
 History: 460(70), 858(80)  
 Mining: 329(10), 463(70), 794(10), 859(00), 985(IP)  
 Production: 794(10), 985(IP)  
 Stratigraphy: 1086(00)  
 Structure: 794(10), 1086(00)

## PORT MOLLER (SW)

Analysis: 600(10), 727(1890), 728(1890), 1102(70)  
 Geology: 501(70)  
 History: 600(10), 858(80)

PORTAGE BAY (SW)  
 General: 819(1890)

PORTLAND ALASKA ANTHRACITE COAL COMPANY  
 Coal Survey Plats: 1168(00)  
 General: 380(10), 422(10), 530(10), 714(10), 1046(10)

PORTLAND COAL CLAIM  
 General: 679(10), 912(10)

#### POWER GENERATION

Anchorage: 76(60)  
 Barrow: 315(70), 651(70)  
 Beluga: 815(70), 863(70), 887(70), 888(70), 902(IP), 960(IP)  
 Central Alaska: 907(30), 908(60), 1011(80)  
 Chicago Creek: 646(00)  
 Development Potential: 1123(70)  
 Economics: 466(IP)  
 Fairbanks: 76(60), 307(50), 497(20), 1052(IP)  
 General: 263(70), 293(70), 466(IP), 486(IP), 511(20), 520(IP),  
 597(70), 602(70), 659(70), 691(IP), 701(70), 706(IP),  
 797(70), 798(70), 805(IP), 903(70), 906(IP), 907(30),  
 908(60), 961(IP), 976(IP), 984(70), 994(IP), 1057(70),  
 1336(IP)  
 Healy: 908(60), 1270(IP)  
 Japan: 854(70), 857(IP)  
 Nenana Coal Field: 189(10), 307(50), 1011(80)  
 Southcentral: 1011(80)  
 Sutton: 908(60)  
 Villages: 582(80)

#### POWER PLANTS See Also (ANCHORAGE MILITARY POWER PLANTS)

Air Pollution: 815(70)  
 Barrow: 903(70)  
 Beluga: 815(70)  
 California: 975(70)  
 Central Alaska: 907(30), 908(60)  
 Environmental Impact: 1248(40)  
 F.E. Power Plant: 1023(30)  
 Fly Ash: 745(70)  
 General: 263(70), 474(70), 1057(70), 1336(IP)  
 Healy: 43(60), 147(40-50), 166(50), 886(60)  
 Nenana Coal Fields: 307(50)  
 Offshore: 701(70)  
 Puget Sound: 960(IP)

## POWERS CREEK

Analysis: 470(40), 744(10)  
 Geology: 471(40), 484(10)

## PREMIER COAL GROUP

Analysis: 1007(30)  
 General: 1031(30)  
 Geology: 458(70), 459(70)  
 Mining: 1029(30)

## PREMIER MINE (SC)

Analysis: 2(60), 58(20), 60(20), 61(20), 232(40), 237(50),  
 238(50), 239(50), 470(40), 588(60), 904(60), 924(70),  
 962(70), 1278(30), 1280(30), 1313(30)  
 Closure: 140(20-30), 1076(40)  
 Coal Fires: 232(40)  
 Correspondence: 60(20)  
 Development Potential: 582(80)  
 Exploration: 1313(30)  
 Flood: 61(20), 141(20-30)  
 Freight Rates: 63(20)  
 Geology: 232(40), 471(40), 585(40), 703(50), 704(40), 1255(-),  
 1303(60)  
 Inventory: 48(20)  
 Litigation: 48(20)  
 Marketing Potential: 582(80)  
 Mine Map: 864(50), 1184(40), 1219(40)  
 Mining: 471(40), 518(70), 666(50), 845(20), 889(IP), 985(IP),  
 1022(20), 1024(30), 1025(30), 1076(40), 1078(40), 1237(20)  
 Ownership: 135(20)  
 Petrography: 962(70)  
 Preparation: 588(60)  
 Production: 65(30), 260(40), 985(IP)  
 Rank: 1278(30)  
 Receivership: 141(20-30)  
 Reopening: 49(40)  
 Reserves: 1303(60)  
 Steam Tests: 1280(30)  
 Stratigraphy: 704(40)  
 Structure: 704(40), 899(IP)  
 Washability: 920(60), 924(70), 588(60)

## PREPARATION

I: 625(60)  
 SC: 588(60), 589(50), 590(60), 592(-), 625(60), 888(70)

## PREPARATION contd.

General: 302(40), 597(70), 805(IP), 889(IP), 928(70), 976(IP),  
979(70)  
History: 460(70)

## PRINCE CREEK FORMATION (AR)

Analysis: 270(60)  
General: 517(60)  
Geology: 270(60), 419(60), 710(70)  
Stratigraphy: 270(60)  
Structure: 270(60)

## PRINCE OF WALES ISLAND (SE)

General: 362(20), 726(1880), 985(IP), 1109(1880)

## PRINCE WILLIAM SOUND (SC)

Coaling Station: 970(00)

## PRODUCTION - REGIONAL

AR: 252(60), 419(60), 455(00), 866(00), 917(80)

I: 260(40), 267(50), 330(10), 446(00), 458(70), 462(70),  
494(20), 505(IP), 580(30), 745(70), 799(70), 827(30),  
901(00), 934(50), 938(70), 959(60), 1011(80), 1270(IP),  
1274(80)

NW: 633(20)

SC: 182(20), 190(10), 232(40), 252(60), 255(00), 260(40),  
267(50), 285(50), 302(40), 330(10), 389(10), 410(70),  
415(20), 416(20), 458(70), 487(70), 507(80), 512(10),  
514(20), 524(70), 548(10), 563(20), 566(10), 588(60),  
594(20), 622(50), 649(60), 655(10), 704(40), 716(50),  
733(70), 769(50), 770(10), 776(10), 794(10), 799(70),  
803(10), 825(10), 832(20), 875(10), 887(70), 904(60),  
917(80), 934(50), 938(70), 949(20), 959(60), 978(40),  
1011(80), 1013(20), 1084(80), 1140(70), 1142(30), 1146(60),  
1303(60)

SW: 255(00), 1085(60)

General: 190(10), 309(20), 310(20), 311(20), 312(20)  
314(70), 394(40), 460(70), 459(70), 484(70), 525(70),  
582(80), 602(70), 611(30), 650(60), 692(70), 706(IP),  
709(10), 773(70), 775(60), 902(IP), 946(80), 947(20),  
1150(50), 1232(10), 1236(80)

Multiple Areas: 332(10), 357(20), 478(10), 535(70), 659(70),  
668(50), 694(00), 713(60), 746(60), 777(20),  
804(70), 876(20), 882(30), 956(10), 984(70),  
985(IP), 1030(30), 1193(-), 1233(10), 1235(80),  
1258(80)

## PRODUCTION - YEARLY

1890-1909: 347(00), 348(00), 349(00), 607(00), 728(1890),  
859(00)

1910-1929: 180(10), 329(10), 333(10), 334(20), 335(20), 344(20),  
350(10), 351(10), 352(10), 354(10), 356(20), 553(20),  
845(20), 876(20), 877(20), 878(20), 879(20), 880(20),  
881(30), 1021(20), 1022(20), 1048(10), 1066(20),  
1067(20), 1068(20), 1079(20), 1081(20), 1090(10),  
1092(10), 1093(10)

1930-1949: 90(40), 613(40), 614(40), 615(40), 616(40), 617(40),  
618(40), 619(40), 620(40), 621(40), 883(30), 1023(30),  
1024(30), 1025(30), 1026(30), 1027(30), 1028(30),  
1029(30), 1030(30), 1031(30), 1032(30), 1033(40),  
1034(30), 1035(40), 1036(40), 1076(40), 1077(40),  
1078(40), 1132(30)

1950-1969: 20(50), 27(60), 32(60), 37(60), 73(50), 84(50),  
151(50), 158(50), 162(50), 164(50), 167(60), 170(50),  
174(50), 622(50), 623(50), 624(50), 666(50), 980(50),  
1063(50), 1064(50), 1178(50)

1970: 16(70), 17(70), 652(70), 750(70)

1980: None

## PROSPECT (I)

Analysis: 862(40)

## PRUDHOE BAY (AR)

Analysis: 304(70)  
Geology: 304(70)  
Stratigraphy: 304(70)

## PTARMIGAN CREEK (I)

Geology: 391(10), 399(10)

## PURDY CLAIM TUNNEL

Geology: 714(10)  
Mining: 714(10)

## PURINTON CREEK (SC)

Analysis: 796(10), 1244(10)  
General: 1021(20)  
Geology: 796(10)  
Rank: 951(30)  
Stratigraphy: 796(10), 869(00), 951(30)  
Structure: 791(00), 796(10), 869(00)

## QUARTZ CREEK

Analysis: 823(30)  
 General: 405(30), 584(70), 828(10), 829(20)  
 Geology: 404(20), 823(30)

## QUEENS CREEK

Analysis: 470(40), 744(10), 778(00), 780(00), 782(00)  
 Geology: 471(40), 561(-), 778(00), 780(00)  
 Stratigraphy: 778(00), 782(00)  
 Structure: 778(00)

RAILROAD, See ALASKA RAILROAD

## RAMPART (I)

Analysis: 12(70), 446(00), 447(00), 478(10), 585(40)  
 General: 277(60), 338(00), 469(70), 584(70), 985(IP), 1169(20)  
 Geology: 354(10), 446(00), 447(00), 515(10), 516(10), 585(40)  
 Mining: 354(10), 801(60), 859(00)  
 Rank: 269(60), 813(70)

## RAWSON COAL COMPANY

Coal Leases/Permits: 1071(20)  
 Production: 1313(30), 1314(30)

## RAWSON MINE (SC)

Analysis: 60(20), 142(20), 232(40), 470(40), 1303(60)  
 Development: 1030(30), 1068(20)  
 Development Potential: 582(80)  
 General: 1031(30)  
 Geology: 471(40), 1303(60)  
 Marketing: 1030(30)  
 Mining: 471(40), 845(20), 1022(20), 1081(20)  
 Ownership: 51(30)  
 Production: 1030(30)  
 Reserves: 1303(60)  
 Start-up: 142(20)  
 Transportation - Railroad Spur: 142(20)

## RAWSON PROSPECT

Analysis: 131(20)

## RAY RIVER BASIN

Geology: 516(10)

## RECLAMATION OF MINED LANDS

AR: 731(IP)  
 I: 8(70), 226(70), 462(20), 463(70), 464(70), 804(70), 953(70),  
 1271(70), 1274(80)



## RECLAMATION OF MINED LANDS contd.

SC: 296(80), 463(70), 1058(70)

General: 11(70), 13(70), 300(IP), 464(70), 465(70), 503(IP),  
871(70)

Multiple Areas: 835(IP), 954(70), 1235(80), 1258(80), 1269(70)

Overview: 849(IP), 954(70), 1001(70)

## RED HILL

Coal Fires: 740(00)

General: 740(10)

## RED MOUNTAIN (SC)

Analysis: 789(10), 1244(10)

Geology: 789(10)

## RED RIVER (SW)

Analysis: 338(00), 784(10)

General: 490(1890), 1085(00)

Geology: 784(10), 819(1890)

## REED PROPERTY (I)

Washability: 920(60)

## REEF (SE)

General: 490(1890)

## REGULATIONS

General: 300(IP), 313(IP), 389(10), 352(IP), 1094(IP)

Overview: 1258(80)

## REINDEER CREEK (NW)

Geology: 645(10)

Mining: 645(10)

## RESERVES (SINCE 1950)

AR: 252(60), 256(60), 257(60), 269(60), 295(70), 327(80),  
386(IP), 387(60), 424(70), 440(70), 710(70), 731(IP),  
793(70), 917(80), 936(50), 999(00), 1110(60), 1111(70),  
1205(70), 1259(70), 1301(60)I: 256(60), 257(60), 259(70), 269(60), 295(70), 327(80),  
505(IP), 517(IP), 582(80), 644(70), 725(80), 799(70),  
924(70), 959(60), 938(70), 959(60), 979(70), 1264(60),  
1270(IP), 1291(50), 1292(50)

NW: 269(60), 385(70), 492(80), 493(80), 604(60)

## RESERVES (SINCE 1950) contd.

SC: 6(70), 190(10), 194(70), 252(60), 256(60), 257(60), 259(60),  
 269(60), 273(60), 285(70), 290(70), 308(IP), 327(80), 367(60),  
 410(70), 509(70), 517(IP), 545(70), 582(80), 622(50), 635(70),  
 671(70), 673(60), 721(IP), 733(70), 799(70), 800(50), 810(50),  
 811(70), 812(70), 837(60), 887(70), 888(70), 889(IP), 902(IP),  
 904(60), 910(80), 911(IP), 924(70), 935(-), 938(70), 959(60),  
 979(70), 984(70), 986(70), 997(IP), 1058(70), 1146(60),  
 1205(70), 1264(60), 1303(60), 1305(60), 1306(60)  
 SW: 257(60), 269(60), 295(70), 467(70), 604(60)  
 General: 317(70), 510(70), 650(60), 652(70), 797(70), 906(IP),  
 994(IP), 1083(70), 1263(60)  
 Multiple Areas: 11(70), 12(70), 84(50), 258(70), 293(70), 294(70),  
 455(70), 461(60), 487(70), 504(70), 535(70),  
 567(70), 659(70), 702(70), 713(60), 741(70),  
 746(60), 749(80), 804(70), 808(70), 813(70), 853(70),  
 963(70), 985(IP), 987(IP), 1051(70), 1095(80),  
 1123(70), 1149(60), 1150(50), 1234(80), 1235(80),  
 1249(70), 1301(70)  
 Overview: 1258(80)

## REVILLA - GIGEDO

General: 727(1890)

## REX CREEK (I)

Analysis: 786(10), 959(60), 1235(80)  
 Environmental Impact: 1235(80)  
 Geology: 786(10), 1296(60)  
 Mining Costs: 1235(80)  
 Production: 959(60), 1235(80)  
 Reserves: 1235(80)  
 Structure: 786(10), 959(60), 1296(60)  
 Transportation: 1235(80)

## RHYOLITE CREEK

Geology: 399(10)

## RICE - SHEARER

Development Potential: 582(80)

## RILEY CREEK (I)

Analysis: 61(20)  
 Blacksmith Coal: 1125(40)  
 Geology: 704(40)  
 Stratigraphy: 704(40)  
 Structure: 704(40)

## RINEHART PROSPECT

Closure: 186(10)  
General: 284(50)  
Mining: 186(10)

## ROBINSON MOUNTAIN (SC)

General: 765(10), 830(70), 985(IP)  
Geology: 1018(30)  
Rank: 830(70)  
Structure: 1018(30)

## ROCHER CREEK

Geology: 391(10)

## ROGERS, M.E.

Contracts: 82(50)

## ROOSEVELT CREEK

Geology: 762(10)  
Structure: 762(10)

## ROSS HECKEY MINE

Analysis: 58(20), 74(20), 1007(30), 1008(30)  
Blacksmith Coal: 58(20)  
General: 54(20), 69(30), 1029(30)  
Marketing: 1028(30)  
Mining: 845(20), 1024(30), 1026(30), 1027(30), 1028(30),  
1029(30), 1068(20)  
Production: 1028(30)

## ROTH and MANLEY CLAIMS

General: 1024(30), 1025(30)

## ROTH MINE

Analysis: 74(20), 143(20), 585(40)  
Character: 143(20)  
Development: 143(20), 585(40)  
Geology: 143(20)  
Lease Status: 143(20)  
Maps: 143(20)  
Steam Tests: 143(20)  
Transportation - Railroad - Spur: 143(20)

## ROTH PROPERTY (I)

Analysis: 417(40)  
Development: 1068(20)

## ROTH PROPERTY contd.

General: 1231(50)  
Geology: 471(40), 474(40)  
Map: 217(-)  
Mining: 1022(20), 1026(30)

## ROTH - TAYLOR (I)

Analysis: 2(60), 470(40)  
Geology: 471(40)

## ROYALTIES

Correspondence: 55(10), 91(50)  
General: 509(70)

## RUBY REGION (I)

Analysis: 269(60), 417(60), 582(80), 823(30)  
General: 277(60), 828(10), 829(20)  
Geology: 567(70), 582(80), 823(30)  
Rank: 269(60)

## RUNNELS

General: 207(10)

## RUSSIAN-AMERICAN COMPANY MINE

General: 294(70), 354(10), 600(10), 739(10), 794(10), 875(10),  
1105(80)  
History: 858(80), 859(00)

## RUTH RIVER (SC)

Geology: 1141(30)

## SABLE PASS (I)

General: 392(30)

## SADDLE MOUNTAIN

Stratigraphy: 766(80)

## SAFETY

General: 89(50), 153(50), 517(IP), 879(20), 882(30), 883(30)

## SAGAVANIRKTOK (SW)

Analysis: 1005(50)  
General: 316(70), 740(10)

SAGWON BLUFF (AR)  
Analysis: 930(80)  
Geology: 930(80)  
Petrology: 930(80)

SALANATOF (SC)  
General: 509(70)

SALT CREEK (I)  
General: 447(00), 1201(60)

SANCTUARY FORMATION  
Geology: 1296(60)

SANCTUARY RIVER (I)  
Analysis: 2(60), 1125(40)  
General: 392(30), 843(30)  
Geology: 400(10)  
Rank: 1291(50)  
Stratigraphy: 396(10), 1125(40)

SANFORD - USIBELLI MINE, See Also USIBELLI Headings  
General: 285(50)  
Map: 217(-)  
Production: 260(40), 267(50)

SARGENT CREEK (I)  
Geology: 841(40)

SAVAGE RIVER (I)  
Analysis: 704(40), 959(60), 1125(40), 1235(80)  
Environmental Impact: 1235(80)  
General: 392(30), 843(80)  
Geology: 400(10), 704(40)  
Location: 1290(70)  
Mining Cost: 1235(80)  
Production: 959(60), 1235(80)  
Rank: 1291(50)  
Reserves: 1249(70)  
Stratigraphy: 396(10), 704(40), 1125(40)  
Structure: 396(10), 704(40), 959(60)  
Transportation: 1235(10)

SCHRADER BLUFF FORMATION  
Drilling: 968(50)

## SEATTLE ALASKA ANTHRACITE COAL COMPANY

Coal Survey Plats: 1168(00)  
General: 381(10), 422(10), 530(10)  
Mining: 1046(10)

## SECOND BERG LAKE (SC)

Analysis: 470(40), 744(10), 780(00), 1244(10)  
Geology: 471(40), 780(00)  
Stratigraphy: 780(00)

## SELAWIK BASIN (NW)

Analysis: 493(80)  
Geology: 493(80)

## SELAWIK QUADRANGLE

Reserves: 317(70)  
Transportation: 317(70)

## SELDOVIA (SC)

Dating Methods: 1131(70)  
General: 316(70), 813(70)  
History: 638(70)  
Mining: 638(70)  
Petrography: 1131(70)  
Volcanic Ash Partings in Coal: 1131(70)

## SENTINEL HILL

Drilling: 968(50)

## SEPPHAGEN MINE (SE)

Analysis: 338(00)  
General: 490(1890)  
Geology: 338(00)

## SERPENTINE RIVER (NW)

Analysis: 493(80)  
Geology: 493(80)  
Resources: 492(80)

## SEVENTYMILE RIVER (I)

Analysis: 827(30)  
General: 269(60), 584(70), 1201(60)  
Geology: 425(70), 446(00), 447(00)  
Stratigraphy: 446(00)

## SEWARD

Dock Statistics: 65(30), 66(30)

## SEWARD PENINSULA (NW)

Analysis: 12(70), 125(00), 329(10), 339(00), 470(40), 493(80),  
631(10), 775(00), 782(00), 783(00), 959(60)

Development: 277(60), 339(00), 346(00), 348(00), 349(00),  
352(10), 353(10), 412(20), 662(00), 663(00),  
777(20), 1019(00)

General: 269(60), 302(40), 358(10), 359(00), 585(40), 836(00),  
984(70), 1022(20), 1029(30), 1031(30), 1035(40),  
1036(40), 1225(10), 1250(00)

Geology: 329(10), 338(00), 345(00), 448(00), 493(80), 567(70),  
775(00), 1041(10)

History: 858(80)

Map: 469(70), 517(IP)

Overview: 984(70)

Rank: 341(20), 1301(70)

Reserves: 634(00), 1041(10)

## SHAVIOVIK RIVER (AR)

Analysis: 1005(50)

## SHAW BED

Analysis: 415(20), 924(70)

Geology: 416(20), 781(10)

Mining: 416(20), 781(10)

Production: 416(20)

Structure: 415(20), 416(20), 781(10)

Washability: 924(70)

## SHEEP CREEK (SC)

General: 548(10), 836(00)

Geology: 561(-)

## SHEPHERD CREEK

Analysis: 778(00), 780(00), 787(00), 1084(00), 1244(10)

Geology: 778(00), 780(00), 1084(00)

Stratigraphy: 782(00), 787(00)

Structure: 787(00)

## SHIELDS PROSPECT TUNNEL (SC)

Analysis: 470(40)

Geology: 471(40)

## SHORT CREEK

Analysis: 875(10)

## SHORT CREEK contd.

General: 407(10)  
Mining: 333(10),  
Production: 825(10)  
Structure: 825(10)

## SHOVEL CREEK (I)

Analysis: 786(10)  
Geology: 786(10)  
Structure: 786(10)

## SHUMAGIN ISLANDS (SW)

Analysis: 338(00)  
General: 490(90)  
Geology: 338(00)  
Mining: 819(1890)

## SHUNGNAK

General: 1043(10)  
Reserves: 317(70), 1188(70), 1219(-)  
Transportation: 317(70)

## SIKSIKVUK RIVER (AR)

General: 517(60)

## SILTATION OF STREAMS

General: 533(70), 1053(IP), 1258(80)

## SIMPSON AREA

Drilling: 965(60)  
General: 643(10)

## SINAK RIVER (NW)

Analysis: 493(80)  
General: 195(40), 269(60), 813(70), 1019(00)  
Geology: 493(80)

## SINGAURUK RIVER (NW)

Analysis: 493(80)  
Geology: 493(80)

## SITKA (SE)

Analysis: 600(10)  
General: 491(1890)  
History: 600(10)  
Mining: 739(10)



## SITKAN ARCHIPELAGO

Distribution: 319(1890)

## SITKANAK ISLAND

Analysis: 200(60), 699(50), 1304(60)  
 General: 490(1890), 1085(00)  
 Geology: 200(60), 699(50), 784(10), 1304(60)  
 History: 200(60)  
 Reserves: 200(60)  
 Stratigraphy: 200(60), 1304(60)  
 Structure: 761(10)

## SKWENTNA RIVER (SC)

Analysis: 1235(80)  
 Environmental Impact: 1235(80)  
 General: 269(60), 405(30)  
 Geology: 404(20), 769(50)  
 Mining Costs: 1235(80)  
 Reserves: 1235(80)  
 Stratigraphy: 271(60)  
 Structure: 769(50)

## SLATE CREEK (SC)

General: 818(00)  
 Geology: 840(50)

## SLEEPY CREEK (SW)

Analysis: 730(20)  
 Geology: 730(20)

## SLEETMUTE

Analysis: 470(40)

## SLURRY PIPELINE

General: 804(70), 857(IP), 895(IP), 898(70)

## SOUTHEASTERN ALASKA, See Also Locations in the Area

Analysis: 783(00)  
 General: 1250(00)  
 Overview: 1239(70)  
 Permits: 228(10-20)  
 Production: 228(10-20)  
 Rank: 782(00)  
 Reserves: 782(00)

## SOUTHWESTERN ALASKA, See Also Locations in the Area

Analysis: 782(00)  
Permits: 228(10-20)  
Production: 228(10-20)  
Rank: 782(00)  
Reserves: 782(00), 1085(00)

## SPARLING PROSPECT (SC)

Analysis: 284(50)

## SQUARE LAKE (AR)

Drilling: 451(50)  
Stratigraphy: 451(50)

## ST. ELIAS

General: 328(1890), 1018(30), 1203(70)

## ST. JOHN BAPTIST BAY (SE)

General: 490(1890)

## ST. LAWRENCE ISLAND (NW)

Analysis: 75(20), 195(40), 595(30), 1007(30)  
Characteristics: 595(30)  
General: 449(00)

## ST. MARY'S CREEK

Analysis: 572(10)

## STANDARD MINES (SC)

General: 1203(70)

## STATISTICS (by year)

Consumption: 979(70), 1190(20-30), 1191(30-50), 1192(50-80)  
Mining: 979(70), 1190(20-30), 1191(30-50), 1192(50-80)  
Production: 979(70), 1190(20-30), 1191(30-50), 1192(59-80)  
(See also these same headings for additional references.)

## STACY GROUP

General: 913(10)

## STRAIGHT CREEK

General: 405(30)  
Geology: 769(50)  
Structure: 769(50)

## STEAM TESTS

Baxter Company: 496(20), 220(-)  
 Bering River: 140(20-30), 272(-), 1260(10)  
 Evan Jones Company: 496(20)  
 General: 61(20), 351(-), 1198(20)  
 Healy River Coal Company: 496(70)  
 Locomotive Tests: 1278(30), 1280(30)  
 Nenana: 229(-)

## STILLWATER CREEK VALLEY

Analysis: 778(00)  
 Geology: 778(00)

## STONY CREEK (SC)

General: 500(70)  
 Geology: 400(10), 1039(20)

## STRONG BLUFF (AR)

Mining: 866(00)

## STUYAHOK RIVER (I)

General: 588(10), 632(10)

## SULFUR IN COAL

General: 474(-), 1297(60)

## SULLIVAN ISLAND

General: 726(1880), 727(1890)

## SUNFLOWER CREEK (SC)

General: 984(70)  
 Overview: 984(70)  
 Reserves: 987(IP)

## SUNTRANA FORMATION

Analysis: 3(80)  
 Character: 3(80)  
 Geology: 3(80)  
 Map (Strat): 1284(70), 1285(70), 1287(70), 1288(70), 1289(70),  
 1290(70)

## SUNTRANA MINE

Analysis: 2(60), 234(50), 236(50), 240(50), 241(60), 243(60),  
 431(50), 471(40), 494(20), 585(40), 598(60), 698(70),  
 862(40), 884(40), 885(50), 924(70), 962(70), 1005(50),  
 1006(40), 1102(70), 1170(40), 1173(70), 1280(30),  
 1297(60), 1300(60)

## SUNTRANA MINE contd.

Carbonization: 884(40), 885(50)  
 Character: 924(70)  
 Coal Fires: 53(-), 668(50), 934(50), 1075(40), 1076(40),  
 1209(50-70)  
 Contracts: 24(50)  
 Gasification Potential: 884(40)  
 General: 10(50), 12(70), 21(50), 167(50), 267(50), 285(50),  
 311(20), 621(40), 877(20), 984(70), 1026(30), 1067(20),  
 1231(50)  
 Geology: 255(60), 366(70), 383(70), 394(40), 471(40), 585(40),  
 704(40), 774(40), 924(70)  
 History: 638(70), 858(80)  
 Location: 383(70), 1289(70)  
 Map: 224(50), 636(50), 1176(40), 1243(-)  
 Marketing: 1028(30), 1030(30)  
 Mining: 85(50), 383(70), 495(20), 638(70), 668(50), 669(50),  
 805(IP), 845(20), 924(70), 984(70), 985(IP), 1022(20),  
 1027(30), 1028(30), 1033(40), 1068(20), 1078(40),  
 1125(40), 1271(70), 1295(50), 1323(60)  
 Petrography: 962(70)  
 Production: 255(60), 494(20), 934(50), 985(IP), 1028(30), 1030(30)  
 Purchased by Usibelli: 1324(60)  
 Reserves: 1150(50)  
 Steam Tests: 1280(30)  
 Stratigraphy: 366(70), 704(40), 1006(40)  
 Structure: 366(70), 585(40), 704(40)  
 Transportation - Railroad - Spur: 905(50)  
 Ventilation: 1125(40)  
 Washability: 924(70)

## SUNTRANA MINING COMPANY

Coal Fire: 1097(50)  
 Contracts: 171(50)  
 General: 9(50), 26(60), 156(50), 163(50)  
 Mine Map: 1097(50), 1098(50), 1099(50), 1100(50)  
 Mining: 667(50)  
 Purchased by Healy River Coal Mine: 152(50), 667(50)

## SUPERIOR MINE (NW)

Mining: 985(IP)

## SUSHANA RIVER

Analysis: 2(60), 1125(40)  
 Stratigraphy: 1125(40)

## SUSITNA COAL FIELD

Analysis: 12(70), 269(60), 327(80), 329(10), 659(70), 799(70),  
 813(70), 927(RIP), 959(60), 1005(50), 1170(40)  
 Development Potential: 293(70), 455(70), 517(IP), 545(70),  
 640(50), 1205(70), 1206(70)  
 Economics: 535(70)  
 General: 1(00), 6(70), 13(70), 277(60), 341(20), 394(40),  
 401(10), 405(30), 407(10), 469(70), 476(10), 546(20),  
 599(00), 622(50), 738(00), 804(70), 809(70), 861(60),  
 1227(10), 1250(00)  
 Geology: 327(80), 329(10), 338(00), 345(00), 354(10), 383(70),  
 393(20), 394(40), 402(30), 404(20), 406(20), 408(30),  
 458(70), 528(1890), 529(1890), 998(70), 1085(00)  
 History: 457(70), 641(50)  
 Land Status: 504(70)  
 Location: 383(70), 671(60)  
 Marketing Potential: 293(20)  
 Mining: 327(80), 383(70), 517(IP), 614(50), 1169(70)  
 Mining Costs: 457(70)  
 Permits: 186(10), 228(10-20)  
 Rank: 269(60), 441(10), 813(70), 1169(20), 1301(70)  
 Reserves: 11(70), 293(70), 455(70), 504(70), 517(IP), 535(70),  
 545(70), 635(70), 671(70), 813(70), 933(70), 1249(70)  
 Stratigraphy: 269(60)  
 Structure: 327(80), 959(70), 998(70)  
 Transportation: 1082(10)  
 Washability: 927(RIP)

## SUTTON

General: 829(20), 877(20), 889(IP), 1081(20)  
 History: 638(70)  
 Mining: 638(70), 835(IP)  
 Power Generation Potential: 908(60)  
 Reserves: 889(IP)

## SUTTON COAL WASHERY PLANT

Closure: 145(20-60), 1026(30)  
 Construction Cost: 145(20-60)  
 Contract: 145(20-60)  
 Equipment: 145(20-60)  
 Financial Statement: 127(20-60), 140(20-30), 145(20-60)  
 Flow Sheet: 1003(20)  
 General: 1003(20)  
 Inventory: 140(20-30)  
 Layout: 1003(20)  
 Photographs: 50(10)

## SURFACE MINING, See Also Specific Mines

AR: 710(70), 833(70)

I: 505(IP)

SC: 733(70), 887(70)

General: 503(IP), 553(70), 906(IP), 924(70), 954(70), 987(IP),  
994(IP), 1022(20), 1094(IP), 1199(70), 1258(80),  
1271(70)

Multiple Areas: 1083(70)

Reclamation: 463(70), 464(70), 849(IP)

Reserves: 259(70), 285(50)

## SWIFT CREEK (NW)

Analysis: 823(30)

General: 829(20)

Geology: 823(30)

## SWIFT RIVER (SW)

General: 269(60)

## SYNTHETIC FUELS

SC: 308(IP), 509(70), 721(IP), 860(IP), 888(70), 902(IP),  
960(IP), 1151(50)General: 11(70), 424(70), 520(IP), 565(70), 602(70), 691(IP),  
721(IP), 741(70), 805(IP), 895(IP), 906(IP), 1235(80),  
1258(80)

Hydrogenation: 71(40), 72(40), 230(50), 1151(50), 1222(20+)

Marketing Potential: 1151(50)

Solvent-Refined Coal: 11(70), 13(70), 659(70), 804(70), 979(70)

## TACOMA COAL CLAIM

General: 680(10)

## TAKLI ISLAND

General: 491(90)

## TALACHULITNA (SC)

Geology: 769(50)

Structure: 769(50)

## TALKEETNA MOUNTAINS (SC)

Analysis: 870(00)

General: 316(70), 809(70)

Geology: 287(50), 932(70)

Reserves: 932(70)

Structure: 932(70)

## TALKEETNA RIVER (SC)

General: 738(00), 932(70)

Stratigraphy: 869(00)

## TALUSHULITNA RIVER

General: 405(30)

Geology: 404(20)

## TANANA VALLEY (I)

Analysis: 585(40)

Exploration: 323(00)

General: 320(1890), 324(00), 342(1890), 394(40), 882(30),  
985(IP)

Geology: 516(10), 585(40)

Transportation: 1082(10)

## TANUNAK

General: 584(70)

## TATLANIKA BASIN (I)

Analysis: 327(80), 470(40), 959(60), 1170(40), 1235(80)

Environmental Impact: 1235(80)

Geology: 327(80), 390(10), 398(10), 471(40), 1296(60)

Mining: 327(80)

Mining Costs: 1235(80)

Production: 959(60), 1235(80)

Reserves: 1235(80)

Structure: 327(80), 390(10), 959(60), 1296(60)

Transportation: 1235(80)

## TAXATION

General: 313(IP), 650(60), 712(60), 958(51), 985(IP)

## TAZLINA RIVER

General: 1(00), 818(00)

## TEKLANIKA RIVER (I)

Analysis: 2(60), 327(80), 1125(40)

General: 392(30), 843(30), 985(IP)

Geology: 327(80), 400(10)

Mining: 327(80)

Stratigraphy: 396(10), 1125(40)

Structure: 327(80), 396(10)

## TEOCALLI MOUNTAIN

General: 1037(10)

## TEPSAKO RIVER (AR)

Analysis: 2(60), 419(60), 493(80)

Geology: 493(80)

Mining: 1124(40)

## THEIN MINE, See CLEMENS THEIN MINE

## THETIS GROUP (AR)

Analysis: 448(00)

Geology: 445(00), 448(00)

Stratigraphy: 445(00), 448(00)

Structure: 445(00), 448(00)

## THETIS MINE (AR)

Analysis: 419(60)

General: 338(00), 419(60), 999(00)

History: 638(70)

Mining: 448(00), 638(70), 866(00)

Structure: 419(60)

## THISTLE CREEK (I)

Analysis: 786(10)

Geology: 786(10)

Structure: 786(10)

## THOMPSON CREEK (SW)

Analysis: 356(20), 730(20)

General: 352(10)

Geology: 730(20), 1085(00)

## THOMPSON VALLEY MINE (SW)

Analysis: 470(40), 467(70), 1049(20), 1170(40)

Character: 254(10)

Development: 255(00)

General: 808(70)

Geology: 467(70)

Mining: 255(00), 477(10), 1049(20)

Reserves: 467(70)

Stratigraphy: 254(10), 255(00), 467(70), 1049(20)

Structure: 255(00), 467(70)

Washability: 467(70)



## THOROFARE RIVER (I)

General: 392(30)

Geology: 1039(20)

## THREEMILE (SC)

Analysis: 507(80)

Development Potential: 887(70)

Geology: 327(80)

Mining: 733(70)

## THURSTON

General: 207(10)

## TIDE WATER CONSOLIDATED COMPANY (SW)

General: 1046(10)

## TITALUK RIVER

Drilling: 967(50)

## TOKOSITNA RIVER

General: 1141(30)

## TOKLAT RIVER (I)

Analysis: 2(60), 704(40)

General: 843(30)

Geology: 400(10), 406(20), 704(40), 937(60), 1039(20), 1150(20)

History: 858(80)

Production: 394(40)

## TOKSOOK BAY (SW)

General: 584(70)

## TOKUN CREEK (SC)

Analysis: 470(40), 744(10), 780(00), 782(00), 1170(40),  
1244(10)

Development: 561(-)

General: 548(10)

Geology: 471(40), 561(-), 780(00), 786(00)

Stratigraphy: 782(00)

## TONAKAT

General: 546(20)

## TOPAGORUK (AR)

Drilling: 452(50)

Stratigraphy: 452(50)

TOROK FORMATION (AR)  
Geology: 386(IP)

TOTATLANIKA RIVER (I)  
Coal Fire: 1119(70)  
Geology: 398(10), 786(10)  
Stratigraphy: 1285(70)

TOYONAK  
History: 638(70)  
Mining: 638(70)

TOZITNA RIVER (I)  
General: 584(70)

TRAIL CREEK  
Analysis: 780(00), 1244(10)  
Geology: 780(00)

TRAMWAY BAR (I)  
Analysis: 925(80), 930(80), 999(00)  
Character: 925(80)  
General: 338(00), 446(00), 584(70), 585(40)  
Geology: 925(80), 930(80)  
Petrology: 930(80)  
Washability: 925(80)

TRANSPORTATION (SINCE 1950), See Also ALASKA RAILROAD, SLURRY PIPELINE  
AR: 252(60), 424(70), 1140(70)  
I: 1011(80), 1337(70)  
NW: 413(20), 873(70)  
SC: 6(70), 285(50), 290(70), 296(80), 720(70), 721(IP), 769(50),  
857(IP), 863(70), 890(70), 960(IP), 1011(80), 1058(70),  
1059(70), 1334(60)  
General: 11(70), 13(70), 83(50), 84(50), 294(70), 295(70),  
317(70), 509(70), 582(70), 701(70), 712(60), 797(70),  
804(70), 836(60), 895(IP), 940(70), 946(80), 961(70),  
976(IP), 995(IP), 1083(70), 1206(70), 1235(80),  
1333(70), 1336(IP)  
Multiple Areas: 808(70), 1258(80)

TRAVERS CREEK (SC)  
Geology: 1086(00)  
Stratigraphy: 1086(00)  
Structure: 1086(00)

TRINITY ISLANDS (SC)  
Geology: 699(50)

TROUBLESOME CREEK (SC)  
General: 1141(30)

TROUBLESOME GULCH  
Geology: 1085(00)  
Stratigraphy: 255(00)

TROUT CREEK (SC)  
Analysis: 470(40), 572(10), 778(00), 780(00), 782(00), 787(00),  
1084(00), 1176(40), 1244(10)  
Coking: 782(00)  
General: 280(50), 512(10), 548(10), 575(10), 827(30), 1238(10),  
1307(60)  
Geology: 471(40), 561(-), 704(40), 778(00), 780(00), 1084(00),  
1326(10)  
Stratigraphy: 778(00), 787(00)  
Structure: 704(40), 778(00)  
Washability: 920(60)

TRIUMVIRATE GLACIER (SC)  
General: 996(70)

TUBUTULIK RIVER (NW)  
Analysis: 493(80), 1042(10)  
General: 195(40), 1019(00)  
Geology: 493(80), 1042(10), 1317(50)  
Reserves: 492(80)

TULUGA RIVER (AR)  
General: 517(60)  
Geology: 999(00)  
Structure: 999(00)

TULUGAK CREEK (AR)  
Analysis: 11(70)  
Stratigraphy: 921(80)

TULURAK TONGUE (AR)  
Analysis: 517(60)  
Drilling: 968(50)

## TWO BALL RIDGE AREA (I)

General: 8(70)

## TYONEK (SC)

Analysis: 338(00), 354(10), 441(10), 470(40), 478(10), 644(70),  
744(10), 769(50), 775(00), 782(00), 904(60), 1085(00),  
1170(40), 1226(10), 1235(80), 1244(10)

Character: 255(00)

Environmental Impact: 1235(80)

General: 1(00), 13(70), 186(10), 316(70), 339(00), 359(00),  
599(00), 796(10), 1090(10), 1161(50), 1250(00)Geology: 338(00), 354(10), 402(30), 471(40), 529(1890), 585(40),  
644(70), 769(50), 775(00), 1085(00)

History: 638(70), 858(80)

Market Analysis: 1162(50)

Mining: 329(10), 354(10), 638(70)

Mining Costs: 1235(80)

Power Plant Potential: 815(70)

Production: 255(00), 1235(80)

Rank: 441(10)

Reserves: 255(00), 1235(80)

Structure: 338(00), 738(00), 769(50)

Transportation: 1235(80)

## UGAK BAY (SW)

General: 1085(00)

## UGANIK BAY REGION

General: 491(1890), 1085(00)

## UGASHIK LAKES (SW)

Geology: 819(1890), 1085(00)

## ULUKUK CREEK (NW)

Analysis: 493(80), 1042(10)

General: 338(00), 1041(10)

Geology: 493(80), 1042(10)

## UMIAT (AR)

Exploration: 936(50)

General: 316(70)

Geology: 581(70), 710(70)

Paleobotany: 513(50)

Palynology: 513(50)

Petrography: 513(50)

Reserves: 710(70)

## UNALAKLEET (NW)

Analysis: 2(60), 470(40), 493(80), 1009(30), 1042(10), 1170(40)  
 Claims: 1166(40)  
 Development: 1030(30)  
 General: 11(70), 195(40), 277(60), 584(70), 777(20), 956(10),  
 985(IP), 1027(30), 1029(30), 1090(10), 1162(50)  
 Geology: 493(80), 567(70), 1042(10)  
 History: 858(80)  
 Marketing Potential: 1028(30), 1030(30)  
 Mining: 466(IP), 633(20), 1028(30)  
 Power Generation Potential: 466(IP)  
 Production: 633(20), 1028(30), 1030(30)  
 Rank: 269(60), 441(10), 813(70)  
 Reserves: 11(70), 492(80), 1249(70)

## UNALASKA (SW)

Distribution: 319(1890)  
 General: 490(1890)  
 History: 638(70)  
 Mining: 638(70)

## UNAMED CREEK (I)

Stratigraphy: 896(70)

## UNGA COAL FIELD (SW)

Analysis: 12(70), 254(10), 269(60), 338(00), 339(00), 470(40),  
 585(40), 600(10), 659(70), 775(00), 782(00), 1170(40),  
 1226(10), 1244(10)  
 Character: 254(10)  
 Development: 254(10), 269(60)  
 Development Potential: 293(70)  
 General: 256(00), 277(60), 354(00), 490(1890), 491(1890),  
 726(1880), 727(1890), 728(1890), 1109(80), 1250(00)  
 Geology: 338(00), 471(40), 585(40), 604(60), 775(00), 1085(00),  
 1150(50)  
 History: 600(10), 638(70), 858(80)  
 Mining: 254(10), 469(70), 471(40), 478(10), 638(70), 859(00),  
 985(IP), 1046(10)  
 Overview: 984(70)  
 Production: 985(IP)  
 Rank: 269(60), 441(10), 813(70), 1301(70)  
 Reserves: 11(70), 293(70), 534(00)  
 Stratigraphy: 254(10), 269(60), 338(00)  
 Structure: 269(60), 338(00)

U.S. AIR FORCE, See MILITARY COAL INTEREST and ANCHORAGE MILITARY POWER PLANTS

U.S. ARMY, See MILITARY COAL INTEREST and ANCHORAGE MILITARY POWER PLANTS

U.S. ARMY COAL COMMISSION

General: 1076(40)

U.S. ARMY COAL PROCUREMENT COMMITTEE

General: 616(40), 617(40), 618(40), 774(40)

U.S. NAVY, See Also NAVAL ALASKAN COAL COMMISSION

General: 512(10), 560(10), 576(10), 578(10), 655(10), 656(20),  
831(20), 834(20), 969(00), 970(00), 971(00), 1260(10)

USIBELLI COAL COMPANY (I)

Analysis: 1337(70)

Coal Reports: 92(40)

Development Potential: 293(70)

Employment Statistics: 1272(70)

Environmental Impact: 1272(70)

Equipment: 1272(70)

General: 83(50)

Marketing Potential: 293(70)

Mining: 987(IP)

Mining Costs: 1272(70)

Production: 459(70)

Reclamation: 1272(70)

Reserves: 293(70), 505(IP)

Transportation: 148(60)

USIBELLI COAL MINE, INC. (I)

Contracts: 82(50)

Development: 231(70)

Development Potential: 587(70)

Equipment: 231(70)

General: 9(50), 20(50), 151(50), 157(50), 163(50), 294(70),  
507(80), 858(80)

History: 802(70), 858(80)

Marketing: 231(70)

Mine Map: 1275(60),

Mining: 231(70), 518(70), 519(70), 801(60), 802(70)

Mining Conditions: 587(70)

Power Plant: 886(60)

Production: 231(70)

Reserves: 587(70)

Retail Outlet Fairbanks: 169(50)

## USIBELLI MINE

(I)

Analysis: 2(60), 12(70), 234(50), 235(50), 236(50), 237(50),  
 239(50), 240(50), 241(60), 243(60), 244(60), 245(60),  
 246(60), 247(60), 248(60), 249(60), 250(60), 460(70),  
 625(60), 697(70), 698(70), 920(60), 924(70), 959(60),  
 962(70), 1171(70), 1172(70)  
 Coke Testing: 625(60)  
 Contracts: 30(60), 33(60), 39(60), 171(50)  
 Development: 462(70), 917(80), 1011(80), 1236(80), 1274(80)  
 Development Potential: 1123(70), 1270(IP)  
 Drilling: 1274(80)  
 Environmental Impact: 750(70)  
 Equipment: 36(60), 804(70), 1273(IP), 1274(80)  
 General: 13(70), 24(60), 26(60), 31(60), 42(60), 147(40-50),  
 410(70), 1231(50)  
 Geology: 383(70), 463(70), 704(40), 774(40)  
 History: 462(70), 638(70), 858(80)  
 Labor Difficulties: 666(50)  
 Leases: 147(40-50)  
 Location: 1289(70)  
 Map: 217(-), 942(60), 943(60), 944(70), 945(-), 1243(-)  
 Marketing: 750(70), 1274(80)  
 Marketing Potential: 1270(IP)  
 Military Coal Interest: 147(40-50)  
 Mining: 167(50), 383(70), 463(70), 464(70), 638(70), 644(70),  
 666(50), 750(70), 805(IP), 835(IP), 931(IP), 953(70),  
 980(50), 984(70), 985(IP), 987(IP), 1011(80), 1078(40),  
 1125(70), 1236(80), 1270(IP), 1271(70), 1273(IP),  
 1323(60)  
 Mining Methods: 462(70), 953(70), 1273(IP), 1274(80)  
 Petrography: 625(60), 962(70)  
 Power Generation: 1011(80)  
 Power Plant: 147(40-50)  
 Preparation: 460(70), 1273(IP)  
 Production: 462(70), 525(70), 750(70), 917(80), 934(50), 959(60),  
 985(IP), 1011(80), 1236(80), 1270(IP)  
 Rank: 462(70)  
 Reclamation: 226(70), 462(70), 463(70), 464(70), 804(70),  
 953(70), 1273(IP), 1274(IP)  
 Reserves: 11(70), 410(70), 505(IP), 1011(80)  
 Stratigraphy: 704(40), 750(70)  
 Structure: 704(40), 959(60), 1271(70)  
 Transportation: 1011(80), 1274(80)  
 Washability: 460(70), 625(60), 924(70)  
 Washery: 147(40-50), 667(50), 668(50), 669(50)

## UTAH MINES, LTD.

General: 518(70)

## UTILIZATION (SINCE 1950)

AR: 419(60), 605(IP), 935(50)

I: 641(50), 745(70), 1270(IP)

SC: 639(50), 641(50), 1216(50)

Agriculture: 303(50)

Economics: 1057(70)

General: 89(50), 101(70), 197(50), 263(70), 301(IP), 370(70),  
 386(IP), 409(70), 466(IP), 487(70), 488(70), 489(70),  
 517(IP), 520(IP), 565(70), 597(70), 602(70), 642(50),  
 652(70), 691(IP), 692(70), 706(IP), 742(IP), 798(70),  
 854(70), 895(IP), 906(IP), 928(70), 938(70), 959(60),  
 976(IP), 979(70), 985(IP), 1057(70), 1258(80), 1336(IP)

Historical: 985(IP)

Home Heating: 1052(IP)

Local: 624(52)

Military: 623(50), 624(50)

Outlook: 1095(80)

Overview: 1344(50)

Statistics: See under STATISTICS - CONSUMPTION

## UTUKOK RIVER (AR)

Analysis: 3(80), 270(60), 419(60), 585(40), 637(60), 868(20),  
1235(80)

Character: 3(80)

Environmental Impact: 1235(80)

General: 994(IP), 1021(20)

Geology: 3(80), 384(70), 386(70), 419(60), 585(40), 710(70),  
1005(50), 1040(20), 1044(30)

Location: 384(70)

Mining Costs: 1235(80)

Production: 1235(80)

Reserves: 384(70), 424(70), 710(70), 1235(80)

Stratigraphy: 419(60), 868(20), 1044(30)

Structure: 419(20), 868(20), 1040(20), 1044(30)

Transportation: 1235(80)

## VALDEZ CREEK

Analysis: 973(30), 1005(50)

## VITRO COAL MINE (I)

Mining: 1271(70)



## VITRO MINERALS CORPORATION

General: 42(60), 802(70)  
 Purchase of Cripple Creek: 41(60)  
 Washability: 920(60)

## VOLCANIC ASH PARTINGS

General: 1127(70), 1128(70), 1129(70), 1130(IP), 1131(70),  
 1147(80), 1148(70)

## WAINWRIGHT (AR)

Analysis: 2(60), 315(70), 329(10), 339(00), 448(00), 470(40),  
 573(10), 585(40), 775(00), 782(60), 868(20), 930(80),  
 999(00), 1005(50), 1006(40), 1044(30), 1170(40),  
 1226(10), 1244(10)  
 Development Potential: 315(70)  
 Drilling: 315(70)  
 General: 175(30), 310(20), 312(20), 334(20), 358(10), 559(00),  
 845(20), 866(1900), 877(20), 881(30), 882(30), 883(30),  
 1021(20), 1024(30), 1025(30), 1029(30), 1031(30),  
 1036(40), 1078(40)  
 Geology: 315(70), 329(10), 338(00), 344(20), 345(00), 386(IP),  
 445(10), 448(00), 471(00), 585(40), 775(00), 930(80),  
 999(00), 1044(30)  
 History: 638(70), 858(80)  
 Mining: 448(00), 466(IP), 638(70), 985(IP), 1026(30), 1175(40)  
 Mining Methods: 315(70)  
 Petrology: 930(80)  
 Power Generation Economics: 466(IP)  
 Production: 315(70), 344(20), 985(IP), 1044(30)  
 Rank: 441(10)  
 Reserves: 11(70)  
 Stratigraphy: 315(70), 868(20), 930(80), 1044(30)  
 Structure: 338(00), 445(00), 448(00), 868(20), 999(00), 1044(30)

## W.A. HAVNER and COMPANY (SC)

General: 514(20)  
 Leases: 514(20)

## WALKER DOME

Coal Fire: 1119(70)

## WALLEN MINE, See GEORGE WALLEN MINE

## WARDALL RIDGE (SC)

Analysis: 470(40), 571(10), 1170(40)  
 Geology: 471(40)  
 Report: 1062(10)

## WASHABILITY OF COAL

AR: 1265(60)  
 I: 625(60), 924(70)  
 SC: 563(20), 588(60), 590(60), 592(-), 593(40), 625(60),  
 644(50), 705(50), 889(IP), 904(60), 923(60), 924(70),  
 1146(60)  
 General: 132(20), 467(70), 494(20), 591(40), 597(70), 928(70),  
 987(IP)  
 Multiple Areas: 925(80), 926(IP), 927(RIP)  
 Overview: 460(70)

## WASHINGTON COAL CLAIM

General: 376(10)

## WASHINGTON CREEK (I)

Analysis: 269(60), 336(00), 446(00), 447(00), 585(40), 827(30),  
 900(10), 901(00), 1201(60)  
 General: 584(70), 901(00)  
 Geology: 336(00), 446(00), 447(00), 1201(60)  
 History: 858(80)  
 Mining: 336(00), 901(00)  
 Rank: 269(60), 441(10)

## WASILLA (SC)

Analysis: 2(60)  
 Beds Examined: 209(-)

## WASTE DISPOSAL

General: 370(70), 533(70), 835(IP), 1053(IP), 1056(60)

## WATER POLLUTION

General: 370(70), 503(IP), 533(70), 835(IP), 1053(IP), 1094(IP),  
 1235(80), 1258(80), 1347(70)

## WATERFALL BED (SC)

Analysis: 507(80)  
 Character: 925(80)  
 Washability: 925(80)

## WATSON CAMP AREA

Geology: 481(10)

## WATSON GROUP

Mining: 1046(10)

## WHALE BAY/BARANOFF ISLAND

General: 490(1890)

## WHALERS CREEK (SC)

Analysis: 356(20), 730(70), 744(10), 1049(10), 1170(40)

Character: 254(10)

General: 808(70)

Geology: 471(40), 730(20), 1085(00)

History: 858(80)

Mining: 255(00), 477(10), 478(10)

Stratigraphy: 254(10), 255(00), 1049(10)

Structure: 255(00), 730(20)

## WHARF MINE (SC)

Analysis: 12(70)

Closure: 331(10)

General: 984(70)

History: 858(80)

Mining: 603(10), 984(70), 985(IP)

Patent: 330(10)

Production: 985(IP)

## WHATCOM COAL

General: 915(10)

## WHEELER COAL CLAIM

General: 682(10)

## WHITE

General: 207(10)

## WHITE RIVER

General: 338(00)

## WILKHOLM FREE USE PERMIT

General: 186(10)

## WILLIAMS MINE (I)

Analysis: 417(60), 446(00), 447(00), 582(80), 744(10)

General: 584(70), 1041(10), 1307(60)

Geology: 417(60), 446(00), 447(00), 582(80)

History: 638(70)

Mining: 447(00), 638(70), 859(00)

## WILLOUGHBY GROUP

General: 684(10), 714(10), 916(10)

## WILLOW CREEK DISTRICT (AR)

Analysis: 517(60), 1005(50)

General: 869(00)

Geology: 408(30), 414(20), 517(60)

Structure: 517(60)

## WILSON CREEK/KUWALIK RIVER

General: 412(20), 631(10)

## WINDY FORK

Analysis: 1015(70)

Stratigraphy: 1015(70)

Structure: 1015(70)

## WISEMAN (AR)

General: 316(70)

## WISHBONE HILL (SC)

Analysis: 12(70), 232(40), 267(40), 269(60), 459(70), 924(70),  
959(60)

Carbonization: 1008(30), 1010(30), 1307(60)

Character: 924(70), 1206(70)

Contracts: 1216(50)

Correspondence: 1217(50-60)

Development: 149(-), 639(50), 640(50), 1030(30), 1032(30)

Development Potential: 582(80)

Drilling: 221(50), 1185(-), 1186(50), 1215(50), 1216(50)

Exploration: 1031(30)

General: 284(50), 294(70), 621(50), 623(50), 624(50), 1063(50)

Geology: 232(40), 267(50), 394(40), 458(70), 589(40), 704(40)

781(00), 789(10), 800(50), 889(IP), 1142(30), 1215(30),

1303(60), 1334(60)

History: 149(-), 904(60)

Locations: 286(50)

Map: 275(60), 1184(40)

Marketing Potential: 582(80)

Mine Map: 1194(40)

Mining: 286(50), 889(IP), 984(70), 985(IP), 1031(30), 1033(40),

1063(50), 1064(50), 1125(40), 1303(60)

Overview: 808(70)

Production: 260(40), 267(50), 269(60), 889(IP), 959(60),

985(IP), 1206(70)

## WISHBONE HILL contd.

Reserves: 639(50), 889(IP), 987(IP), 1303(60), 1307(60)  
 Stratigraphy: 267(50), 285(50), 704(40), 904(60), 1194(40)  
 1215(50)  
 Structure: 704(40), 285(50), 789(i0), 1215(50), 1307(60),  
 1313(30)

## WISHBONE HILL COAL COMPANY

Analysis: 1009(30)  
 General: 232(40)  
 Marketing: 1028(30)  
 Mining: 1028(30), 1029(30)  
 Production: 1028(30)

## WOLF CREEK (AR)

Analysis: 270(60)  
 Drilling: 451(50)  
 General: 1201(60)  
 Stratigraphy: 451(50)

## WOLVERINE CREEK (SC)

Analysis: 271(60)

## WOLVERINE LAKES

Analysis: 735(20)

## WOOD RIVER (I)

Analysis: 327(80), 959(60), 1235(80)  
 Environmental Impact: 1235(80)  
 General: 398(10), 985(IP)  
 Geology: 327(80), 390(10), 899(00), 1296(00)  
 Locations: 1283(70)  
 Mining: 327(80)  
 Mining Costs: 1285(80)  
 Production: 959(60), 1235(80)  
 Reserves: 1235(80)  
 Transportation: 1235(80)

## WOODARD COAL CLAIM

General: 377(10)

## WOODCHOPPER CREEK (I)

Geology: 1018(30)  
 Mining: 1018(30)

## WRANGELL MOUNTAINS (I)

General: 585(40), 1203(70)

Geology: 1343(00)

## YAKATAGA (SC)

Analysis: 470(40), 571(10), 765(10), 1170(40)

General: 478(10), 1090(10)

## YAKUTAT BAY (SE)

General: 269(60), 490(1890), 727(1890), 728(1890)

Geology: 338(00), 1115(00), 1116(00)

Mining: 801(60)

Rank: 441(10)

Reserves: 1249(70)

## YANERT (I)

Analysis: 470(40), 580(30), 704(40), 1125(40), 1170(40)

Development Potential: 580(30)

Economics: 580(30)

Geology: 471(40), 580(30), 704(40)

Marketing: 580(30)

Mining: 471(40), 989(IP), 1125(40)

Production: 989(IP)

Stratigraphy: 580(30), 704(40), 1307(60)

Structure: 580(30), 704(40), 1307(60)

## YANTARNIE BAY (SW)

General: 490(1890)

## YELLOW RIVER

General: 588(10)

## YENTNA RIVER BASIN (SC)

Analysis: 327(80), 925(80), 930(80), 1235(80)

Character: 925(80)

Development Potential: 545(70)

Environmental Impact: 1235(80)

General: 338(00), 405(30), 469(70), 776(10), 984(70), 985(IP)

Geology: 327(80), 404(20), 407(10), 515(10), 585(40), 925(80),

930(80)

History: 925(80)

Leases: 308(IP)

Mining: 327(80), 407(10)

Mining Costs: 1235(80)

Petrology: 930(80)

## YENTNA RIVER BASIN contd.

Production: 394(40), 1235(80)  
 Reserves: 545(70), 1235(80)  
 Structure: 327(80),  
 Transportation: 1235(80)  
 Washability: 925(80)

## YENTO RIVER (SC)

General: 1(00), 269(60)

## YOUNG CREEK (SC)

Analysis: 470(40), 476(10), 478(10), 481(10), 572(10), 744(10),  
 790(00), 791(00), 795(10), 869(00), 870(00), 1170(40),  
 1244(10)  
 Development Potential: 578(10)  
 General: 789(10), 803(10)  
 Geology: 415(20), 471(40), 476(10), 478(10), 481(10), 791(00),  
 795(10), 870(00)

## YOUNGSTOWN CONSOLIDATED COAL COMPANY (SC)

General: 422(10), 757(10)  
 Mining: 1046(10)

## YUKON RIVER BASIN

Analysis: 12(70), 294(70), 327(80), 329(10), 338(00), 339(00),  
 470(40), 585(40), 775(00), 782(00), 799(70), 959(60),  
 1005(50), 1042(10), 1226(10), 1244(10), 1250(00),  
 1307(60)  
 Development Potential: 293(70), 582(80), 634(00), 1123(70)  
 Exploration: 323(00)  
 General: 302(40), 320(1890), 324(00), 341(20), 342(1890),  
 346(00), 358(10), 359(00), 469(70), 478(10), 588(10),  
 726(1880), 727(1890), 900(10), 1250(00)  
 Geology: 294(70), 327(80), 329(10), 338(00), 345(00), 354(70),  
 417(60), 443(00), 516(10), 582(80), 585(40), 604(60),  
 775(00), 843(70), 901(00), 1018(30), 1042(10), 1150(50),  
 1325(60)  
 History: 858(80)  
 Locations: 1108(1880)  
 Marketing Potential: 293(70)  
 Mining: 329(10), 348(00), 985(IP)  
 Overview: 984(70)  
 Permits: 228(10-20)  
 Production: 228(10-20), 985(IP)

## YUKON RIVER BASIN contd.

Reserves: 293(70), 446(00), 447(00), 634(00), 782(00), 1249(70)

Stratigraphy: 417(60)

Structure: 327(80), 417(60), 659(70), 1018(30), 1307(60)

## ZACHERY BAY (SW)

General: 531(10)

## ZAREMBO ISLAND (SE)

General: 985(IP)

Geology: 604(60)

Location: 297(70)